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ESTAB. 1859

REGISTERED AS A NEWSPAPER.

HONE: CENTRAL 3617.
RAMS: "CHEMICUS,
N, LONDON" (2 Words).

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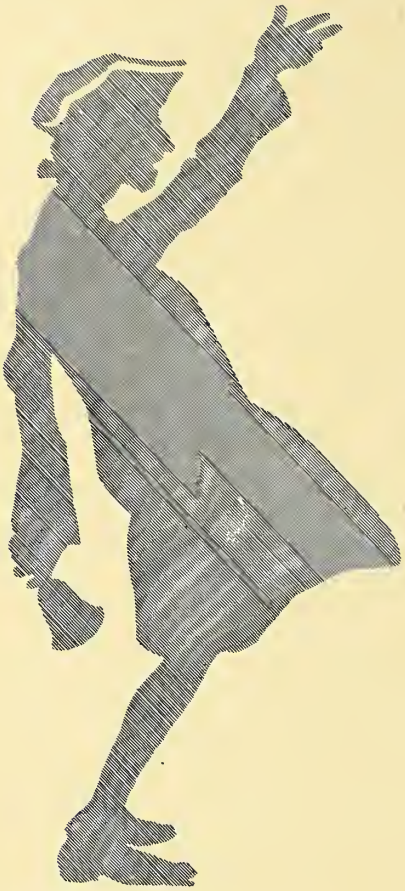

OYEZ! OYEZ!

"The man who whispers down a well
About the goods he has to sell,
Won't glean the blinking golden dollars
Like him wot climbs a tree and hollers."

(Author unknown, apparently American.)

MAY, ROBERTS' MONTHLY SUPPLEMENT IS READY

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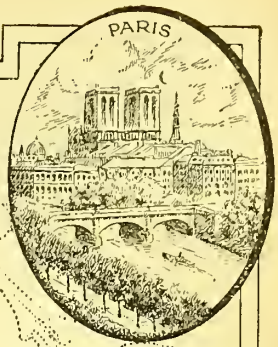

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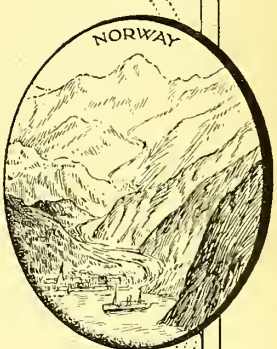

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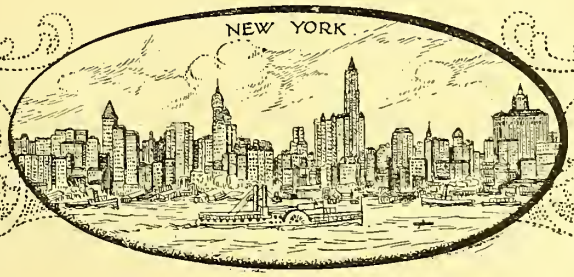

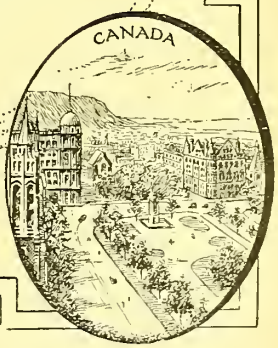

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¶ **AUGUST 16th** brings the reward of patience, and will find us in our modern up-to-date Factory at Raynes Park, London, S.W.19. Here we have well-planned buildings, fitted with labour and time-saving devices that make for efficiency.

¶ SO, too, our manufacturing plant will enable us to turn out bigger quantities of our goods, and help us to meet the ever-increasing demand.

¶ OUR new building provides us with greater facilities for handling the dispatch of goods with the promptness that gives satisfaction.

¶ LIGHT airy workrooms will make for the efficiency and happiness of our employees. Working under the highest hygienic conditions will ensure them good health.

¶ OUR executive offices provide ideal conditions for our clerical staff.

¶ SO, with our new and highly modernised home, with perfected manufacturing and dispatch facilities, with happiness and enthusiasm radiating throughout our whole organisation, with every means and desire to serve you, we stand ready always to give you the kind of service you have a right to expect.

LYSOL LIMITED

Makers of Marshall's "L" Brand Lysol

LYSOL WORKS

RAYNES PARK

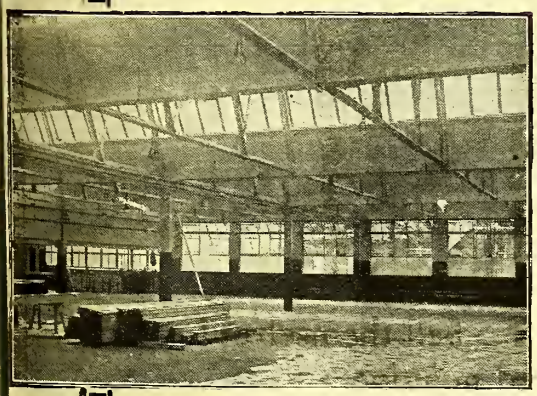
LONDON, S.W.19.

Telephones : Wimbledon 339 340

Telegrams : "LYSOLANT, COTTEN, LONDON."

Lysol

Our New Works.



NOTE Our New Address

MARSHALL'S "L" BRAND

Is the standard product and merits the Chemists' confidence because it is recommended by doctors and nurses.

When asked for a suitable antiseptic and disinfectant do you suggest "Marshall's" Lysol ?

You could recommend nothing better.

The return to you on a bottle of "Marshall's" Lysol makes the article one of your best paying lines and well worthy of your attention.

OUR TRADE MARK.

Every bottle of "Marshall's" Lysol bears our Registered Trade Mark as shown here. NONE GENUINE WITHOUT.

TRADE MARK REG;

LYSOL LTD.

RAYNES PARK,
LONDON, S.W. 19.

Telephone : Wimbledon 339 and 340.

Telephone: Trafford Park 787. Telegrams: "Stevenut Manchester."

Contractors to H.M. Government.

G. STEVEN & CO.

Wholesale Chemists & Drug Grinders,

Cornbrook Street and Chorlton Road, MANCHESTER.

All four repeaters! Sell themselves!

Contents guaranteed genuine.

Packed in white glass toilet Bottles, with sprinklers and lithographed labels.

Price 10/6 per dozen net.

Samples of labels on request.

Maw's Page

August 14, 1920. No. 461.

Pharmacy for the Pharmacist

To-day, I was startled by an imposing display of transparent soap, violet powder, solid brilliantine, talcum powder, Fuller's earth, etc., in an ironmonger's window. The innovation of this firm in marketing and encouraging ironmongers and grocers to stock and sell a line of toilet articles parallel with a similar series which have been introduced and sold by pharmacists for the last few years, is to be deplored. It seems of little avail for this firm to have given us, after many years, better profits on their goods, if they are to divert half our sales into other channels.

H. KEMP.

Muswell Hill, London, N., *June 19, 1920.*

Your correspondent, H. Kemp (*P.J.*, June 19, p. 615), is suffering from competition that is, I am afraid, affecting most of us, as in my own town drapers' shops have good displays of well-known soaps, tooth pastes, etc. But is all well in our own ranks? A prominent pharmacist has a father who keeps a toy shop a few doors from a chemist, and the toy shop has a prominent display of Euthymol, Eucryl, and other tooth pastes, as well as various soaps, shampoo powders, and other things that a chemist usually sells. The pharmacist in question has a chemist's shop in another part of the town, and here are some of his prices :—Epsom salts, 1½d. per ¼ lb.; Glauber salts, the same; Beecham's, 1s., and so on. Now, this is in a district where the chemists have agreed to abide by the Minimum Price List. If our supposed leaders adopt such tactics as these, can you be surprised at the present state of the trade, and your ironmonger, or anyone else, stocking our goods? And it is up to the trade as a whole to see that men of this description are kept off our various official bodies, and that men are elected whose ideals are the uplifting of pharmacy, and pharmacy for the pharmacist—never mind whether you have a relation or not whom you can put in the way of buying—on the principle of every man to his own trade, and also not to cheapen our qualifications by putting ourselves on a level with the cheap grocer by selling salts at 6d. per pound, and such prices as these.

June 26, 1920 "A DISGUSTED ONE" (14/1).

These two letters from recent issues of the Pharmaceutical Journal express what must be the opinion of every thinking pharmacist.

It is undoubtedly to the best interests of every pharmacist to protect his profession by pushing only those lines which are supplied exclusively to pharmacists. The House of Maw is constantly helping the pharmacist in this direction and setting the example to all whom it may concern by upholding the policy of Pharmacy for the Pharmacist. The toilet and sundry products of the House of Maw have always been supplied to legitimate pharmacists only. When you sell goods supplied by us you are building goodwill for the trade of pharmacists and not others.

Remember, Maw's lines are the Pharmacists' lines

Telephone: "City 7" (Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.1.

Telegrams: "Eleven Cent, London."

Owing to its great success we repeat last week's advert.

DE LUZY
5/- Perfumes

¶ Meet the universal demand for a good article at a small cost.

¶ Particularly successful with Seaside Chemists just now.

5/- RETAIL ... ... 40/- dozen.

CARRIAGE PAID ON A DOZEN DURING AUGUST.

Test Samples and Showcards supplied.

Put up in

Violette, Jasmin, Mimosa, Rose, Muguet, Oeillet.

5/6 RETAIL ... ... 44/- dozen

In Ambre, Chypre, and Origan.

SERIOUS WARNING!

Perfumery will be dearer at Christmas. Write for list and book a forward order at present prices.

Highest quality Perfume in reputed 1-oz. stoppered bottles, each in Carton, extremely elegant and dignified. We will take back any order, carriage at our expense, if you consider our claims exaggerated.

W. H. CALNAN & CO., 30-32 Ludgate Hill, E.C.4.

ROSE SUPRÊME DE FRANCE.

A New Perfume, designed to meet the requirements of Pharmacists preparing their own Powders, Creams and Toilet preparations in general.

Of fine quality and constant strength, it will be recognised by the trade to be the perfume of the year.

Prices & Samples from the Manufacturers—

R. LANE-HALL & CO., LTD.

1 STEWARD STREET,
LONDON, E.1.

Cresp-Martinenq

(Grasse, France),

Manufacturers of

ESSENCES & PRIME MATERIALS for MANUFACTURING PERFUMERS, CONFECTIONERS, ETC.

SYNTHETICS

ARTIFICIAL VIOLETS (MYRIONE)

Artificial Musk

INQUIRIES SOLICITED. LARGE STOCKS

ROBERT FERBER, LTD.
98/104 OAKLEY STREET,
LONDON - S.E.1.

Agents for the UNITED KINGDOM & CANADA.

NEW "PATENT" SOAP BOX

Patent "Dredger" Division.

Enamelled White & Washable

Will enjoy quick sales.
Price 16/- doz.

86/-
Gross.

MIDGLEY'S BATH ROUNDS

Of quite unique value at to-day's cost.

Packed 12 in a box hinged for counter display.

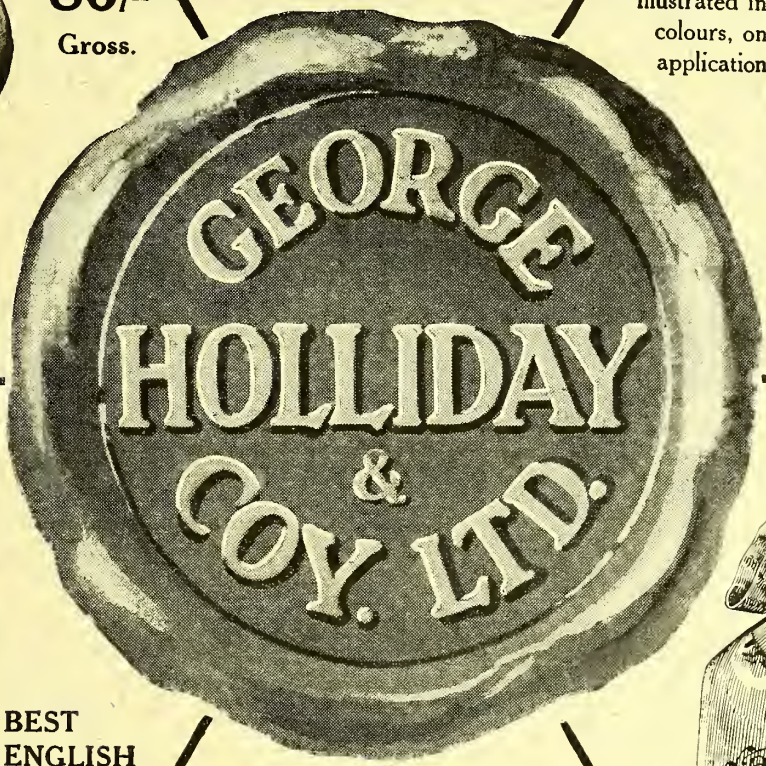
Popular varieties:
VERBENA,
COLOGNE,
ROSE,
LAVENDER.

AIR FLOAT TALCUM

Beautifully decorated tins.

Complete list, illustrated in colours, on application

New tall size.
Per 12/- doz.



PURE BADGERS

BEST ENGLISH MAKE.

Size	Dozen
B1	48/-
B2	60/-
B3	76/-
B4	88/-

GIANT SACHETS

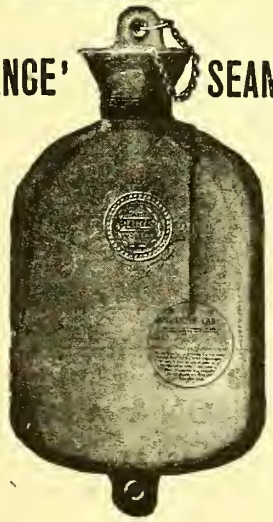
Penetrating. Always refreshing. A safe line.

Per 9/6 doz.
108/- gr.

'RELIANCE' SEAMLESS

5/9 each.

5% 100 lots.



Buy now, before the probable rise.

Buy now and increase your margin.

Carriage Paid on £5 Orders. Cases Free or at Cost and Half Allowed if Retained.

289-325 City Road, MANCHESTER

IMPORTANT NOTICE

Enolin

FROM AUGUST 14 the RETAIL

PRICE OF

Enolin Tooth Paste & Powder

WILL BE

Paste - - **1/6** and **10**d. per tube

Powder - - **1/3** and **7½**d. per tin

Your Profit Increased

SPECIAL CASH ALLOWANCE
FOR WINDOW DISPLAYS.

WRITE FOR NEW TERMS AND PARTICULARS OF THIS LARGELY ADVERTISED PROPRIETARY TO

"SALES" DEPARTMENT

A. & E. CARRERAS, Limited

207 KING STREET, HAMMERSMITH, W.6.

SOLE EXPORT AGENTS—

PATTINSON & MACKIE Ltd.

Albion House

59 NEW OXFORD ST., LONDON, W.C. 1

AYRTON'S WEEKLY PAGE 15

A straight offer

We do not ask you to purchase Ayrton's Cocoanut Oil Shampoo with the chance of its proving a good seller.

We create the demand, and send the purchasers to your pharmacy.

Place your order to-day for one dozen Ayrton's Cocoanut Oil Shampoo either direct with us or with your wholesale house, and we will post to 50 of your customers a testimonial circular and letter describing its merits, also stating that it can be obtained at your pharmacy.

Each parcel of one dozen Ayrton's Cocoanut Oil Shampoo contains blank forms for names and addresses, also specimen testimonial circular and letter.

Ayrton's Cocoanut Oil Shampoo is packed in 4oz. bottles with sprinkler top, and is attractively labelled and cartoned.

Retail, P.A.T.A.	**2/3** per bottle
Wholesale	**16/6** per dozen

With every order we will send you a handsome showcard, testimonial cards and window poster.

If you are interested in lantern slide advertisements for use in your local kinema, drop us a line, and we will tell you all about them.

There's no secret about Ayrton's Cocoanut Oil Shampoo

British and Best!

AYRTON, SAUNDERS & CO. LTD

Manufacturing Chemists **LIVERPOOL**

Delphinus

TOILET PREPARATIONS

Face Cream. Dental Cream.
Brilliantine (Solid & Liquid).
Pomade Hongroise. Nail Polish.
Shampoos. etc.

Products of Unvarying Excellence

Prepared by
The Delphinus Mfg. Co.
45 Edward Street, Brighton.
Cables & Wires: Hongroise, Brighton.

We do not incur heavy expenses in advertising to the public, but prefer to give our Clients the benefit of increased profits.

Sole Agents for Scotland:
Messrs. HENDRY & SMITH & Co.
83 Renfield Street, GLASGOW.

BE WISE! *Write us* **TO-DAY.**

Delphinus
TRADE MARK.

COPYRIGHT.

THREE GOOD SELLERS THAT PAY WELL

FROZOCLONE
(The original solid Eau de Cologne).
(Regd.)

THE WORLD'S GREAT PERFUME AND REFRESHER IN SOLID FORM

Retails (P.A.T.A.)
Minimum - **3/6**
giving at least **10d.** Profit on each sale.
32/- - - per doz.

For EXPORT quantities of not less than four gross a substantial drawback allowance will be made.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

CARNATE (Regd.)

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum **1/9**; **15/-** per doz.

ANALAX
(Reg. Pat. No. 310716)

The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.
Retail (P.A.T.A.) Minimum **2/3**
21/- per doz, stamped.

R. DEMUTH'S LABORATORIES, 68 Salusbury Road, and Montrose Avenue, LONDON, N.W.6

Telegraphic Address: "Boulbene London." Telephone: 525 Willesden.

Where Kerocain is Made.

Kerfoot's Novocain

THE above view—the third of a series of impressions of the Garden Laboratories at Bardsley Vale—is taken from the Tennis Courts and shows the building devoted to certain processes in the manufacture of Kerocain (Kerfoot's Novocain) the local anæsthetic which was used throughout the war by the Medical Services of the British and Allied Governments to the almost entire exclusion of rival preparations.

In addition to Kerocain, many other fine chemicals of great scientific interest are made at Bardsley Vale, including a wide range of Bacteriological Sugars, Perfumery Synthetics, Ethylene Derivatives, Anæsthesin, &c. &c.

A copy of our booklet, "Fine Chemicals," will be sent on request.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,
FULWOOD HOUSE, HIGH HOLBORN, W.C.1

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.

	Per doz.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window / Dummies for Show	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

STRODONIA Vanishing Cream.

NOW SUPPLIED IN
ALUMINIUM SCREW-CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to ½-doz. 1/3 size Bonus for window display, net.; £1/10/0 subject to ¼-doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10/0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

LEROZA

Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention.

Put up in specially designed tins (containing about 1/ oz.) to Retail at 2/- per tin.

Trade Terms: 18/- per dozen CARRIAGE PAID.

Net Monthly Account.

7½% off for Cash within 7 days.

From the Sole Inventor and Manufacturer.

ARCHIBALD MOLE-FLOYD,
The Leroza Theatrical Stores,
71, 73 & 75 Cambridge St., GLASGOW.

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profit.

Full particulars on request.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.

GET YOUR SHARE OF THE LARGE SALES NOW BEING MADE OF **THE EMPIRE**

HENNA SHAMPOOS

They are well packed in smart envelopes and boxes, delightfully perfumed, and repeat sales are sure. Made from a Potash Soap base, so the hair is left soft and wavy.

Retail at **3d.** each.

Loose in display outers,

17/- gross.

In boxes of 7,

12/9 per doz.

3 gross printed with customer's name.

A postcard will bring a Free Sample.

Showcard in an artistic colour scheme of rich auburn, black and brown, with all orders.

THE EMPIRE PERFUMERY CO.

(Cuxson, Gerrard & Co. Ltd., Proprietors) **OLDBURY, ENG.**

EXPORT and COLONIAL Inquiries Invited.

TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniperberry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC ALDEHYDE
GERANIOL
CITRAL
EUCALYPTOL

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.

SPINELLI

The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that theyhave entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E.1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

NESTOR MOURANCHON.

Offices: 40 Rue Damremont, PARIS. Telegrams: "Barthgay Paris." Telephone: Marcadet 15/92.
Distilleries and Laboratories: Chateauneuf-Val-St.-Donat (nr. Grasse), and Romans (Drôme).

SPECIALITIES: Menthes, Neroli, Petitgrain, Patchouli, Otto of Rose, Violet Essence, Gant de Saxe.
"ESSENCES DE MONTAGNE" and Imported Products.
Lavender, Aspic, Thyme, Girofle, Badiane, Geranium, Ylang Ylang, Musk, Ambre.

PRICE LIST ON APPLICATION TO WHOLESALERS ONLY.

Sole Agents for British Isles and Colonies:—

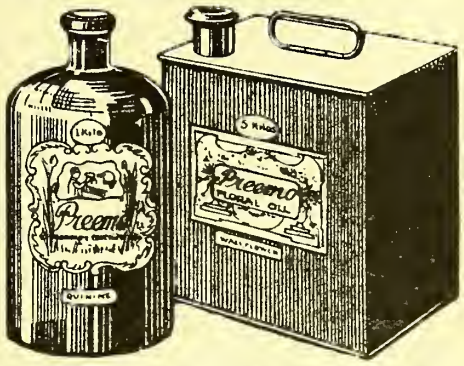
A. BREZET & CO. LIMITED,
19 ST. DUNSTAN'S HILL, LONDON, E.C. 3.

Telephone: Avenue 3543. Telegrams: "Abrezical, Phone, London."

PREEMO

Concentrated Essences, Floral Ottos & Compounds

THE Trade has come to realise that Preemo is a name which stands for the highest standard of Quality and Value in Concentrated Essences, Floral Essences and Compounds. Their natural flower odours are so powerful and lasting, and their superiority in purity and strength is immediately apparent to anyone who compares them with other Essences of this kind. The Preemo Essences are specially distilled from the sweetest flowers of Southern France for Toilet Preparation manufacture, and they owe their world-wide success very largely to the fact that they are simple and easy to use, being perfectly soluble in water, spirit and oil.



WRITE FOR FREE SAMPLES.
We gladly respond to all bona-fide requests.

The PREEMO CONCENTRÉ & ESSENTIAL OIL CO.
63 High Holborn, LONDON, W.C. 1. 32 Rue de Montenotte, PARIS.
Telephone: Holborn 3095. Telephone: Wagram 27-35.

Astounding Demand for the New Hair Preparation

SILKODONO
for the HAIR & SCALP

SILKODONO is going to be pushed with all the powers of modern publicity. It is a genuine scientific Hair Preparation, and we have proved by many experiments that it will do everything we claim for it. Silkodono is not simply a tonic and dressing, but a sure remedy for all Hair and Scalp troubles, and is easily the biggest value in Hair Preparations on the market to-day. The 2/6 size is an 8-ounce bottle and the 4/6 is 16-ounce, Sprinkler Tops. This in itself is sufficient to sell Silkodono on sight. Attractive Showcards, Dummy Cartons, and Useful Booklets supplied Free to help you to make sales. Send us an order to-day—even if it is only a small one. Your Customers will soon be asking for Silkodono. Be ready for this demand—don't turn good business away.

Special Terms to Chemists who order before August 31

1 doz. SILKODONO
2/6 size ... £1 0 0
SPECIAL BONUS
Two Extra Bottles
This gives you a profit of 75 per cent.

1 doz. SILKODONO
4/6 size ... £1 16 0
SPECIAL BONUS
Two Extra Bottles
This gives you a profit of 75 per cent.

3 dcz. SILKODONO
2/6 size ... £3 0 0
SPECIAL BONUS
Nine Extra Bottles
This gives you a profit of over 85 per cent.

3 doz. SILKODONO
4/6 size ... £5 8 0
SPECIAL BONUS
Nine Extra Bottles
This gives you a profit of over 85 per cent.

Manufactured by SILK'S TOILET COMPANY, Red Lion Street, Holborn, London, W.C. 1.
Telephone: Holborn 3095. Telegrams: "Silporanob, Holb, London."

"HEADQUARTERS"

SPANISH ESSENTIAL OILS

LARGE STOCKS

RIGHT PRICES

EVERY KIND.
PRICE LIST GLADLY SENT ON APPLICATION.

LONABARC TRADING CO., LTD.
5 FINSBURY SQUARE, LONDON, E.C. 2.
Telegrams: "Lonabarc, Finsquare, London." Telephone: Clerkenwell 2096.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C. 3.

THE "D & O" BRAND
is the "Standard of Quality" for
OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu,
TONKA BEANS, Angosturas.

Phone— CITY 2468.
Telegrams— "EGDARF, FEN, LONDON."

CHLOROPHYLL

FAST TO LIGHT —— ABSOLUTELY PURE

Telegrams—"Sandoz Bradford."
Telephone—Bradford 1302.

THE SANDOZ CHEMICAL CO., Ltd.
BRADFORD.

Toilet & Complexion Powders

The discriminating buyer will be well advised to carry a representative stock of our Face Powders. They suit all markets and show excellent profits.

Special offer

sent free with the following order:

1 doz. NARGIS COMPACT POWDERS
Assorted tints. Listed at **8/6** per doz.

			Selling Price	Cost Price per doz.	Outlay
1 doz.	Poudre NORA	A dainty competitive production, selling at very reasonable prices. In 6 colours.	1/3	9/-	9/-
1 doz.	,, BONAMI	A superb example of French Poudre de Riz. In 5 colours.	1/6	10/6	10/6
½-doz.	,, ARECO	A remarkable face powder, fine adherent, delicately perfumed. In 5 colours.	1/6	12/-	6/-
½-doz.	,, DESIR	In handsome full-size gilt square boxes, exquisitely perfumed. In 5 colours.	2/9	22/-	11/-
½-doz.	,, ARTINA	One of the Artina series. A superb powder, adherent & delicately perfumed. In 5 colours.	1/6	10/6	5/3
1 doz.	,, BERCEUSE DE FLEUR	In beautifully designed fancy boxes, with mirror in lid, dainty puff in each box. In 5 colours.	1/9	14/-	14/-
½-doz.	,, SPINELLY	A powder of great fragrance, beautifully packed in handsome boxes. In 5 colours.	2/-	15/-	7/6
¼-doz.	,, SALTARELLE	The climax of perfection in adherent face powder. In assorted colours.	5/-	40/-	10/-

Sales Returns, £5 15. 6. Total Outlay, £3 13. 3.

London. 11, Southampton Row, W.C. **Areco Ltd** Paris IXe Rue Taitbout.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

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ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
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KEMP & CO., Ltd. (Bombay)
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There's 'Good Business' in

Pasttella

Pearle Poudre gives minimum profit of 53% on outlay.

and

Nail Poudre gives minimum profit of 55% on outlay.

Sole Distributors.
F. NEWBERY & SONS LD. 27-28, CHARTERHOUSE SQ. LONDON, E.C.

EASTERN TRADING Co. Ltd.
St. Giles, Salisbury.

Importers of Face or Powdered Paper.

Stocked in Rouge, White, Pink and Natural.
Cases of 50 reams. 96 sheets per ream.
Rouge, 11/-, other colours 8/- per ream, *ex* store London.

The Evan-Williams

Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

ORIGINAL HENNA SHAMPOO.

MEDICINAL

GELATINE CAPSULES

Blaud Pill
Castor Oil
Cod Liver Oil
Balsam Copaiba
Sandalwood Oil

etc. etc.

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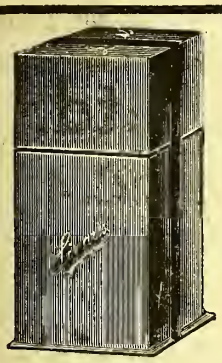

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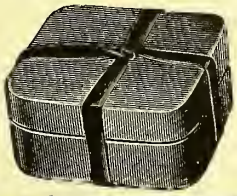
BATH POWDERS
FACE POWDERS (*all tints*)
SKIN FOOD
BEAUTY CREAM
TONIC CREAM
VANISHING CREAM
BATH SALTS, etc. etc.

Linaris Dept. I **31 Westbourne Grove W.2.**



FOR LARGE BUYERS:

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ALSO

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LOW PRICES for HIGH QUALITY.

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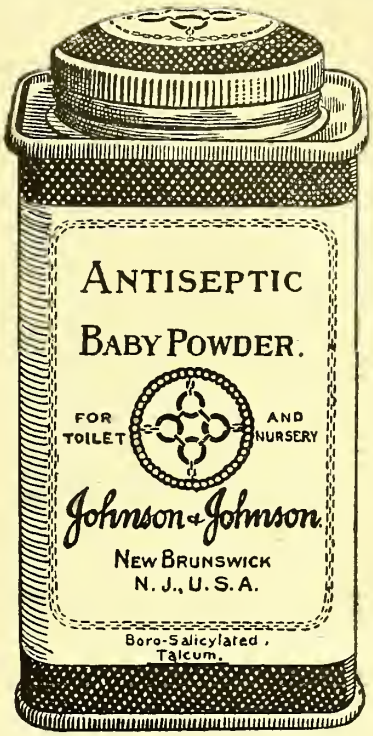
Manufacturing Chemists and Perfumers,

11 ECLIPSOL WORKS, BRISTOL.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON
British - Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

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A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C.4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

2/- size. No. 45			1/3 size. No. 495		
1 doz.	-	16/- per doz.	1 doz.	-	11/- per doz.
6 „	-	15/9 „	6 „	-	10/9 „
12 „	-	15/6 „	12 „	-	10/6 „

The P.A.T.A. prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920.

"Carmex"

INFANTS' CORRECTIVE & LAXATIVE

THE demand for "Carmex" is daily increasing, and it is being widely recommended by midwives and maternity nurses.

Show a bottle of "Carmex" on your counter, and see how quickly you will make a sale without the slightest trouble.

"Carmex" is quite different from the common soothing syrups, gripe cordials, magnesia mixtures, etc.

Booklets, Showcards, etc., free on request.

Retail 1/3 and 3/0

Wholesale 12/6 & 29/0 per doz.

From all Wholesalers.

THE WM. BROWNING CO., Ltd.
Albert Works, Park Street, LONDON, N.W.1

A WORD OF ADVICE TO CHEMISTS.

WE have made important advertising contracts with the leading fashion papers of Great Britain, to run for the next twelve months, bringing to the notice of everyone the World-wide popular

Place some jars of this Cream in your window NOW, together with the new handsome Showcard, and benefit by this advertising campaign to the utmost extent. It will cost you nothing; it will bring business to you without a doubt.

CALMON & NEATE,

Sole Agents for J. LESQUENDIEU, Paris.

8 Gerrard St., London, W. 1.

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GIVE it a good show and it sells itself. There is nothing just like it. The excellence of the product and the practicability of the box make customers for you.

Shows you 33⅓ % on selling price.

POUDRE NILDÉ

in the Sifter Box.

Appeals irresistibly to every woman. The quickest selling line of face powder ever shown.

MINIMUM SELLING PRICES:

POUDRE NILDÉ
in the Sifter Box.

Handbag size	1/-
Medium size	2/-
Large size	3/6
Leather or fancy silk vanity cases, with mirror, small size	5/-
Large size	10/-

Shades:
Blanche, Rachel, Naturelle, Rosée, Basanée.

ROUGE INVISIBLE NILDÉ
in the Sifter Box.

Small size	1/6
In leather case	5/6

Tints:
Brune & Blonde

THROUGH YOUR WHOLESALE HOUSE.

EACH BOX CONTAINS A PUFF

NILDÉ, Paris

British and Colonial Agents:
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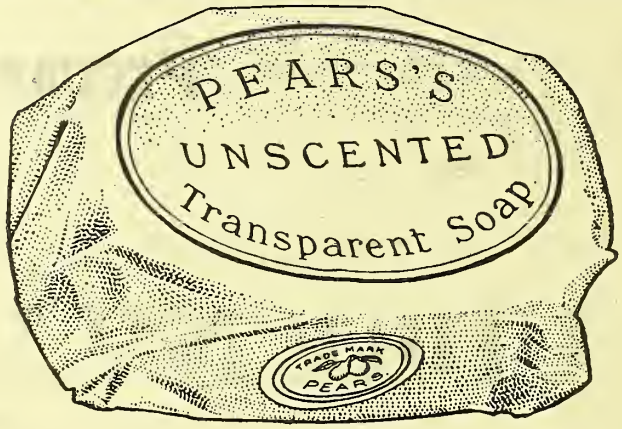

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Pears

Perspiration Troubles

LET US SEND YOU BUSINESS

There is a growing demand for Dulc-o-do, the toilet water which *corrects* excessive perspiration and obviates the use of dress shields. A doctor writes: "*I find it a splendid preparation.*"
Send 20/- for a trial dozen 2/6 bottles and showcards, your name will then be placed on our depot file and all future inquiries from your district will be directed to you.

Dulc-o-do

Corrects Under-Arm Perspiration

Scott's Chemical Co.,
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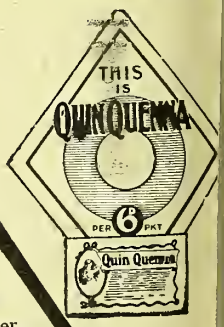
London. N.W.2

P.A.T.A.

43%

is a wonderful return on an everyday and nationally advertised line. Sales are so easy and continuous because Quin Quenna never promises anything it cannot fulfil.



Quin Quenna

BETTER THAN A SHAMPOO

Have your share of the trade (now at its best) and profit, too, by sending at once for 1 × 6 doz. show carton, with 1 doz. bonus, or 3 × 6 doz. and 3 doz. bonus, with the "Quin Quenna" Girl display, proclaimed the best yet.

SOLD AND ADVERTISED **6D.** Per Packet.

Per Doz. **4/-**

T. CHRISTY & CO., 4/12 Old Swan Lane, London, E.C.4.

Hovenden's Toilet Preparations.

Attractive in Appearance, Reliable in Quality and Delicately Perfumed.

SEASONABLE **SALEABLE**

Suitable for High-Class Trade.

Bear our Trade Mark as a Guarantee of Quality.

WHITE.
No. 4764. 2-oz. size.
13/- doz.

No. 4776. 2-oz. size.
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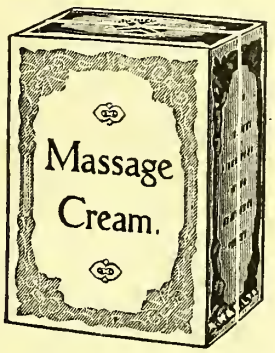

No. 4765. WHITE. **13/-** doz.
No. 4768. 2-oz. size. PINK (Non-Greasy). **13/-** doz.

DENTOROL TOOTH PASTE.

Invaluable for all Toilet Purposes.

Each in Artistic Carton with Transparent Covering.

(PEPPERMINT FLAVOURED.)
No. 4763. **6/2** doz. Each in Artistic Carton with transparent covering.

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Any article on this page can be supplied with Customer's Name and Address, in 1 gross quantities, FREE OF EXTRA CHARGE.

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12/6 doz.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

Subject to 2½ per cent. Cash Discount.
A copy of our Monthly Illustrated List will be sent on application.

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The SAPON SOAP Display Box

Overstocking your shop is a ba policy. To be "cut of stock" is equal bad. You lose prestige, and profi drop, because dissatisfied customers a quick to go elsewhere.

Therefore we urge all customers wh are building up a sale for

SAPON SOAP

to send small orders often.

Although our Works are going fu pressure, demand is so great that w are unable to guarantee prompt deliver on receipt of order. Our many frienc will greatly assist us. therefore, by ar ticipating requirements by a mont when possible.

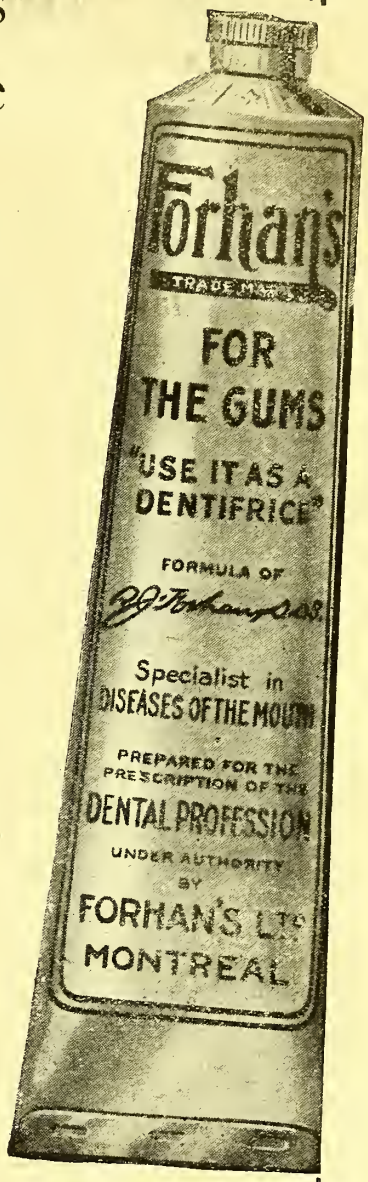
Remember, we are in no way co nected, directly or indirectly, with ar combine of Soapmakers.

"Sapon" Soaps show you a bett profit than other makes.

Send for price list and full particular

SAPON SOAPS, LTD., London Bridge, E.C.4.

Forhan's for the Gums
A Medicinal Dentifrice



FORHAN'S For the Gums, a smooth, pleasant dentifrice, not only keeps the teeth white and clean, but, because it contains a percentage of Forhan's Astringent, has remarkable healing power as well.

Since Forhan's was specially formulated by R. J. Forhan, D.D.S., for the treatment of Pyorrhea, it may be sold to your customers at any hour like any other medicine. And you will find that for inflamed or bleeding gums, as for more advanced stages of Pyorrhea, there is no other dentifrice like Forhan's. Dentists prescribe Forhan's for their patients at home in conjunction with their own use of Forhan's Astringent at the chair.

An advertising campaign appearing in provincial and metropolitan newspapers and magazines, and reaching millions of readers each week, has resulted in a constantly growing demand for this dentifrice.

Packed in the double-size tube, keeping indefinitely without hardening, Forhan's will build increased profits and customer goodwill for you. Displays are available at your request. Send for prices and full trade information.

THOS. CHRISTY & CO.
4-12 Old Swan Lane, London, E.C.4.

Forhan's
FOR THE GUMS

P., D. & Co. Tablets

in convenient pocket vials.

At the repeated request of many pharmacists a number of additions have been made to the series of tablets issued in small containers. To prevent cutting, the price is in every case ***protected by the P.A.T.A.*** at a figure well above the list price.

Experience shows how many customers prefer to buy tablets in the original package of a well-known maker; these small containers certainly meet an already existing demand, a demand which readily lends itself to cultivation and extension.

Below is a selection which is worthy of careful study.

	CONTENT	M.R.P.	M.W.P.
Ammoniated Quinine Tincture (*C.C.T. 400*)	25	1/8	13/6
Ammoniated Quinine Comp. (*C.C.T. 401*)	25	1/7	12/9
Antipyrine (Phenazone) 5-grs. (*C.T. 112*)	25	1/8	13/6
Aspirin, 5-grs. (*C.T. 278*)	25	-/10	6/9
Bismuth and Soda (*C.T. 260*)	25	1/-	7/11
Cascara Sagrada Ext., 2-grs. (*C.T. 261 & C.C.T. 175*) ...	25	-/9½	6/-
Cascara Sagrada Ext., 3-grs. (*C.T. 262*)	25	1/-	8/3
Cathartic Compound, Imp. 3-grs. (*C.C.T. 409*) ...	25	1/-	7/11
Cough (Army Formula No. 4) (*C.T. 565*)	25	1/3	9/9
Digestive, ℞ 'A' (*C.T. 66*)	30	1/2	9/-
Digestive, ℞ 'B' (*C.C.T. 77*)	25	1/2	9/5
Easton Syrup, 1-drachm (*C.T. 263*)	25	1/4	10/6
Easton Syrup, ½-drachm (*C.T. 264*)	25	1/-	7/11
Hypophosphites & Quinine Co. (*C.T. 28*)	25	1/6	12/-
Nucleo-proteid Compound (*C.C.T. 479*)	50	3/9	30/-
Pepsin, 1-gr. (*C.T. 73*)	25	-/10½	6/9
Pepsin, 2-grs. (*C.T. 238*)	25	1/-	7/11
Pepsin, 3 grs. (*C.T. 296*)	25	1/2	9/5
Pepsin, Lactated, 3-grs. (*C.T. 74*)	36	1/-	7/3
Pepsin and Bismuth, ℞ 'A' (*C.T. 36*)	50	2/-	16/2
Pepsin and Bismuth, ℞ 'B' (*C.T. 37*)	50	2/6	20/3
Phenacetin, 5-grs. (*C.T. 274*)	25	1/4	10/6
Phenacetin and Caffeine, ℞ 'B' (*C.T. 270*)	25	1/6	12/-
Phenolphthalein, 2-grs. (*C.T. 467*)	25	1/2	9/-
Potassium Chlorate, 5-grs. (*C.T. 79*)	40	-/10	6/5
Potassium Chlorate and Borax (*C.T. 80*)	40	-/10	6/5
Rhubarb and Soda (*C.T. 98*)	25	1/-	7/6
Sodium Bicarbonate, 5-grs. (*C.T. 100*)	40	-/10	6/5
Sodium and Calcium Glycerophosphates with Lecithin (*C.C.T. 414*)	36	2/-	16/2
Sodium Salicylate, 5-grs. (*C.C.T. 139*)	25	-/10	6/5
Triple Glycerophosphates with Nuclein (*C.C.T. 408*) ...	25	1/8	13/2
Vegetable Laxative (*C.T. 564*)	25	1/2	9/-

C.T.—Compressed Tablet. *C.C.T.—Chocolate-coated Tablet.*

All prices are without engagement, and are subject to change without notice.

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Laboratories :: :: Hounslow, Middlesex.

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Telegrams: "Odclon, Edge, London."
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GENUINE EAU DE COLOGNE

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Acquired by a BRITISH OFFICER whilst serving in Cologne.

Guaranteed "DOUBLE" Eau de Cologne and up to pre-war standard.

If our Representative has not yet called on you, apply direct.

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British Proprietors of Johann Maria F. Farina, St. Joseph, 1648, Original

Gold Medal

'Gloria' (Regd.) Tooth Brushes

No loose hairs guaranteed.

BIDWELLS Limited

Castle Mills,
AXMINSTER, DEVON.

BEWARE!!

ANTHRAX

Is an EVER-PRESENT DANGER!

Be on the safe side and stock

NONE BUT OUR SHAVING BRUSHES

and Camel Hair Pencils.

All Guaranteed FREE of ANTHRAX.

We also stock

COMBS - PUFFS - BAG PUFFS
Bone and Ivory NAIL FILES, and all Manicure Requisites and Sets.

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Having overcome the War-time difficulties in the manufacture of these goods, we can now guarantee prompt delivery of orders. Each Thermometer is verified and stamped at the National Physical Laboratory, Kew, and can be thoroughly relied upon. High prices still remain, but the main thing is quality for the money—that we guarantee to give you.

PRICES

Hospital pattern	per doz. **28/-**	60 seconds, lens front ...	per doz. **38/-**
,, ,, lens front	,, **31/-**	30 seconds, plain	,, **40/-**
60 seconds, plain... ...	,, **34/-**	,, lens front ...	,, **44/-**

Each Thermometer in Metal Case.

HOUSE THERMOMETERS, Etc.

No. 1008 House Thermometer, assorted colours, 8 in.	per doz.	**12/6**
,, ,, imitation boxwood, 10 in.	,,	**18/-**
,, ,, for Sick Room, 8 in.	,,	**18/-**
No. 1009 Bath ,, floating, plain wood, 10 in.	,,	**17/6**
,, ,, ,, ,, 12 in.	,,	**18/6**
No. 1608 ,, ,, in japanned metal frame, 10 in. ...	,,	**30/-**
Lactometer (milk tester), in card case, complete with directions for using	,,	**14/-**

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for new illustrated PRICE LIST, post free for the asking.

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WHOLESALE AND EXPORT ONLY.

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THE COMB SPECIALISTS

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VULCANITE CELLULOID
GALALITH HORN

THE LARGEST SELECTION IN LONDON.

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OILS

IN CASES OR BARRELS

Peanut Soya Bean
Maximum 2% Acidity
Linseed Rapeseed
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INSECT POWDER
CAMPHOR, REFINED

We shall gladly quote by cable, c.i.f. any port in the world.

Our firm is entirely owned and operated by British and Americans.

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GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity. Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

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MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

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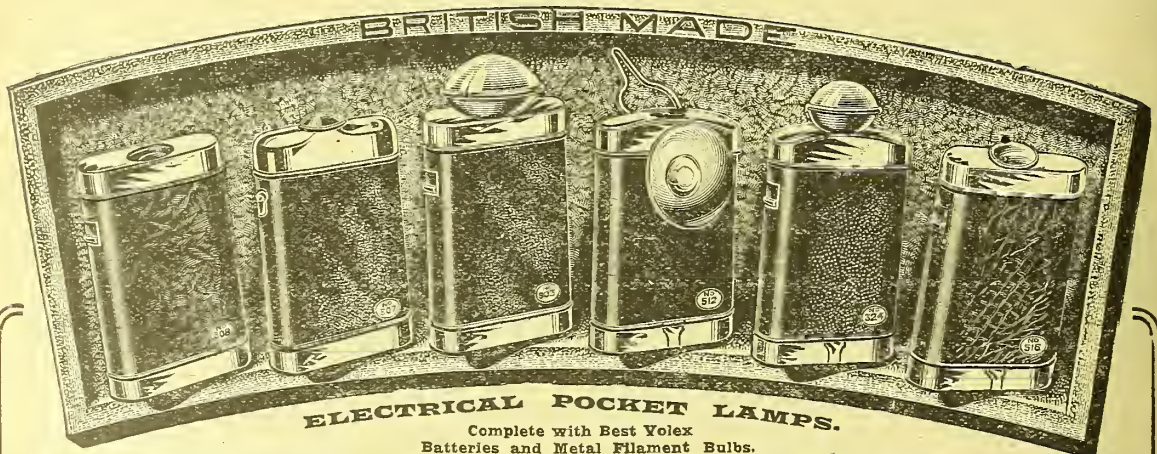

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Size 6⅝ × 1⅝ in.
A reliable torch at a popular price. Strong and well constructed. Patent permanent switch.
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"Volex" Pocket Lamp Dry Battery.
Best British Manufacture. The most powerful Pocket Lamp Dry Battery on the market.
Price **8/-** doz. net.

Metal Filament Bulbs.
Strongest and most efficient.
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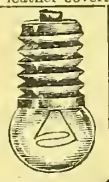

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Size 7½ x 1⅜ in.
A Real Torch de Luxe, heavily nickelled fitting, permanent and flashing switch.
Complete **6/4** each net.

Ward & Goldstone Ltd.
SALFORD MANCHESTER

Just what you want
IN
GLASSWARE
of every description.

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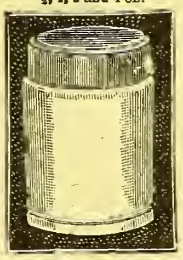
of every description of Glassware for all purposes.

Porcelain Pomade (with Celluloid Caps) ½, 1, 2 and 4 oz.



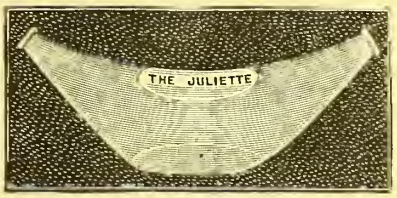
Smelling Salts.

Opal Octagon Pomade. 1 & 2-oz. with Screw Caps

The following are some of the lines we offer:

LIMES, tinted green, squat, 2-oz., packed about 15 gross cases, **12/-** gross net.
Free port London. About 200 gross stock.
LIMES, tinted green, 4-oz., packed about 8 gross cases, **18/-** gross net.
Free port London and Newcastle-on-Tyne. About 500 gross stock
MEDICALS, tinted green, 4-oz., plain, 1st quality, packed 5 gross cases, **21/-** gross net.
Free port. Stock 650 gross Hull. 100 gross London. 100 gross Liverpool.
MEDICALS, 4-oz., graduated, packed 6 gross cases, 2nd quality, **19/-** gross net
Free port London. Stock about 200 gross.
MEDICALS, tinted green, 6 oz., 2nd quality, plain, packed, 6 gross cases, **22/-** gross net.
Free port London. Stock 60 gross.
MEDICALS, tinted green, 2nd quality, 8-oz., grad., packed 3½ gross cases, **24/-** gross net.
Free port Hull. 150 gross stock.
MEDICALS, tinted green, 1st quality, 8-oz., grad., packed 5 gross cases **30/-** gross net.
Free port London. 150 gross stock.
TOBINS, 2½-oz., tinted green, packed **5/6** gross cases, **20/-** gross net.
Free port, stock 200 gross Hull and 200 gross London.
VIALS, tinted green, ½-oz., packed about 28¾ gross cases **9/6** gross net.
Free port Glasgow, about 150 gross stock.
VIALS, tinted green, 1-oz., packed 17½-19½ gross cases, **11/-** gross net.
Free port Hull, Glasgow, Liverpool and Leith, about 700 gross stock in all.
VIALS, tinted green, 6 drams, packed 13/23 gross cases, **10/6** gross net.
Free port Leith, Hull, and Glasgow, about 1,000 gross stock in all.
VIALS, tinted green, 2-oz., packed 8/11 gross cases. **12/-** gross net.
Free port Leith, Hull, Glasgow and Liverpool. About 1,000 gross stock in all.
MEDICALS, 2-oz., tinted green, packed about 15 gross cases, **19/-** gross net.
Free port Leith. 9 cases stock.

WHOLESALE ONLY.



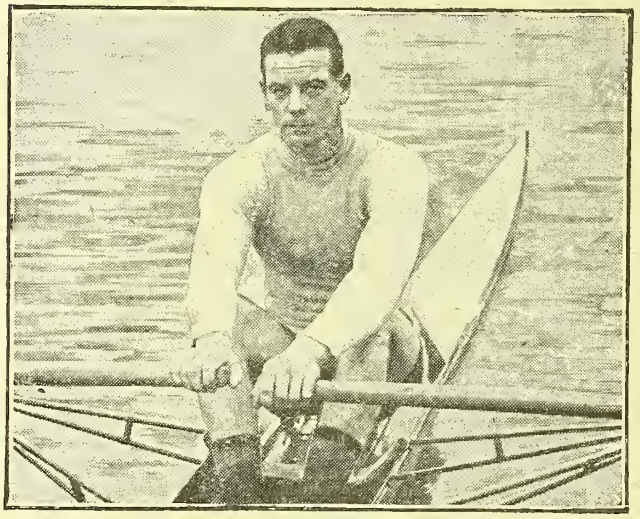
NO RETAIL FIRMS SUPPLIED.

JULES LANG & SON.

CHARLTON WORKS:
Charlton Place, Islington, London, N. 1.

Telephones: North 2770-2 (three lines). *Telegrams:* "Assorted, Phone, London."
Please mention this Paper when sending us your inquiries

ATHLETES HAVE TO USE THEM

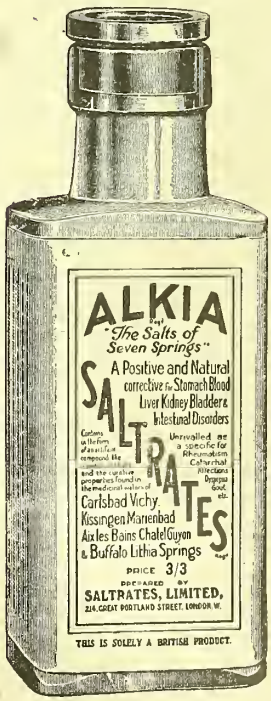


ALFRED FELTON.
Holder of the World's Sculling Championship.

ALKIA SALTRATES.

A widely advertised product which is the most efficient salt on the market, and best value for the money. Being highly concentrated, only very small doses are necessary, and there is no trace of unpleasant, salty taste. Protected on P.A.T.A. at the full value of 3/3 a large bottle.

"Reudel Bath Saltrates is absolutely unequalled for rendering the skin active and healthy, and eliminating all impurities from the body. When in training for the World's Sculling Championship Reudel Bath Saltrates kept me free from all muscular aches and pains to which any athlete in hard training is subject. It is my pleasure to praise and recommend your admirable Reudel Bath Saltrates to the public." *Alf Felton*



JIMMY WILDE, World's Champion Boxer:—"I am glad to test the part your Saltrates fulfill during my training periods. I am never without both and never will be." *Jimmy Wilde*

BOMBARDIER BILLY WELLS, the popular Boxer:—"When a physical instructor in the army, I found both Alkia and Reudel Bath almost indispensable for correcting and preventing the ills and pains to which Tommies are subject. Personally, I take Alkia regularly and Reudel is always added to my bath." *Billy Wells*

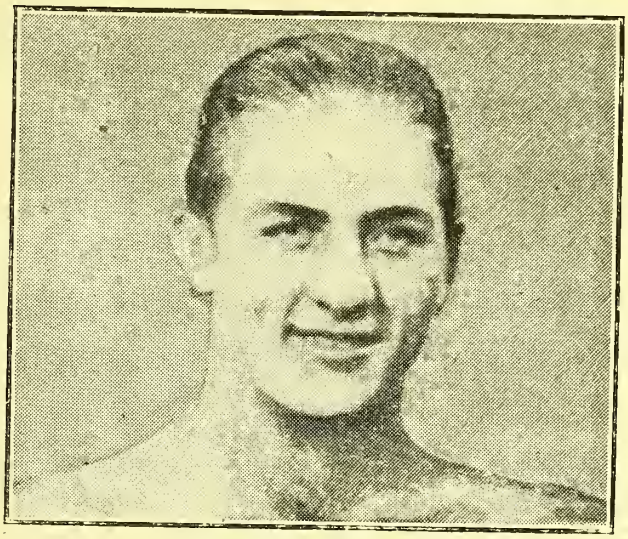
JIM SULLIVAN, ex Middle-Weight Champion and former Army Physical Trainer:—"Alkia soon 'knocks out' liver, kidney, uric acid or similar disorder. Reudel baths stop any aches or pains, foot troubles, etc., in no time. Your ad. writer is too conservative." *Jim Sullivan*

YOUNG HEALEY, Featherweight: "I strongly advise all professional boxers to use both Alkia Saltrates and Reudel Bath Saltrates, as I do myself, regularly." *Jenny Healey*

EVERYONE HOULD USE THEM

UDEL BATH ALTRATES.

ost fragrant, refreshing, al and all-round satisfactory tion for the bath or for toilet purposes. Especially nended in cases of foot or rheumatic pains, stiffness, ow being extensively adver- Protected on P.A.T.A. at face value of 2/- and 3/3



GEORGES CARPENTIER,
Heavy-Weight Champion of Europe.

s the best system-cleansing and tonic drink for anyone who suffers any form of ill health. Reudel banishes rheumatic or muscular d aches within ten minutes. h preparations and shall never ut them."

G. Carpentier.

GEORGE, World's Champion Runner:—"I have used and Reudel with remarkable good results. They are erful products, as everyone to whom I have recommended fully agrees."

W. G. George

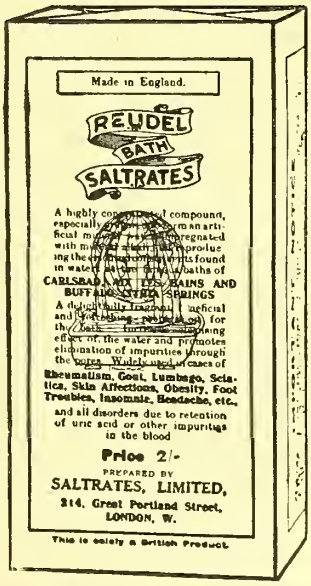
DONALDSON, World's Champion Sprinter:—"Alkia o equal for rheumatic and uric acid disorders of all kinds. Reudel bath will keep the joints more supple than a dozen ish or vapour baths. I could not do ut them both."

J. Donaldson.

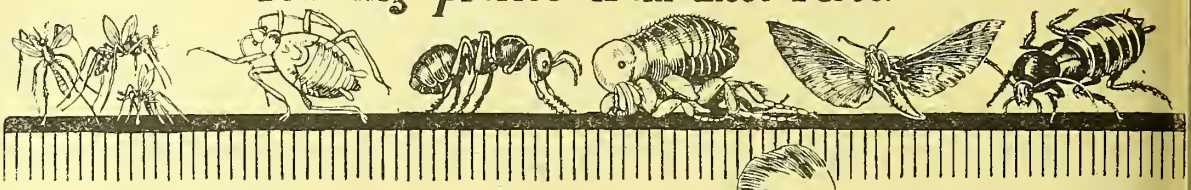
ve hundreds of similar letters which f space prevents our reprinting here.

les we have numerous other highly commendatory received from the champions and leaders of lly every branch of sport. They will be published me to time in other series of advertisements.

REUDEL BATH SALTRATES.



Hawley's Insect Killer gives You big profits from these Pests.



SPECIMEN ORDER WITH BONUS FOR WINDOW DISPLAY.

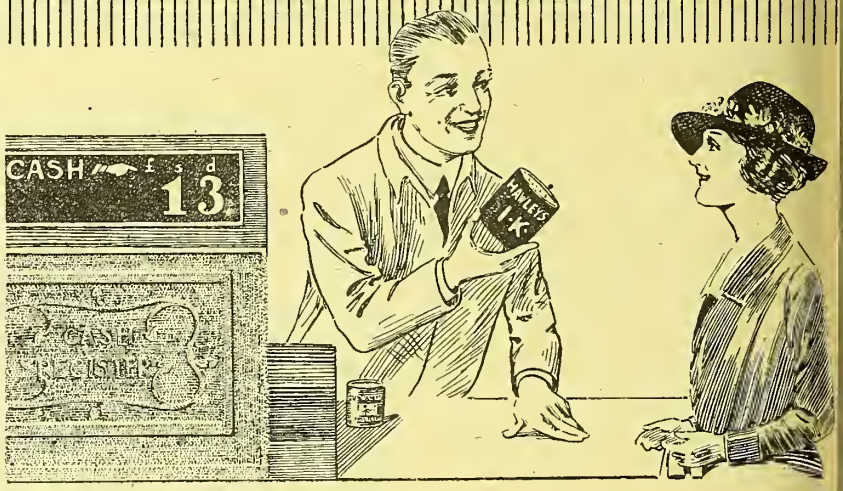
	Cost £ s. d.	Selling Price £ s. d.
6 doz. 4d. at 2/8	0 16 0	1 4 0
½ ,, Free ...	—	0 2 0
5 ,, 8d. at 5/4	1 6 8	2 0 0
5/12 ,, Free ...	—	0 3 4
1 ,, 1/3 at 10/-	0 10 0	0 15 0
1/12 ,, Free ..	—	0 1 3
	£2 12 8	£4 5 7

PROFIT, 62·2% on cost.

Double the above order, and give a window display, and we allow 5% discount. The result then is as follows:

		Selling Price
Cost ...	£5 5 4	—
Less 5%	0 5 3	—
	£5 0 1	£8 11 2

PROFIT, 71·1% on cost.



This 1/3 tin can cost YOU 8¾d

The 8d. size can cost you 4¾d.

The 4d. size can cost you 2¼d.

Are your *present* insect killer profits as generous?

Many Chemists find that it pays to stock I.K., not only for the benefit of the housewife, but for the menfolk as well—the enthusiastic people who take a pride in the appearance and welfare of their gardens.

Hawley's I.K. has been proved to be as effective in the destruction of Greenfly as it is in the extermination of Beetles, Moths, Fleas, Cockroaches, Ants, etc.—just give it a personal trial on the rose trees in *your* garden.

EVANS SONS LESCHER & WEBB LTD.

London. *New York.* *Liverpool.*

PUSH DISINFECTANTS THAT
INCREASE *YOUR* TURNOVER

GERM=QUIT

The Safe Disinfectant.

A standardised Hypochlorite and Chlorine Solution of certified co-efficiency, containing nearly 6½% Sodium Hypochlorite, and thus safer, and many times stronger, than Carbolic Acid as a bactericide.

GERM=QUIT IS WORTH PUSHING BECAUSE

It is value for money, retailing at **1/6**, showing you **43%** on sales, each bottle making 6-8 gallons.

It is restricted to the Drug Trade, like all Lawson Fine Products. and so creates customers for **you** and not for the Grocer or Ironmonger.

It is the Ideal Domestic Disinfectant. Disinfects without danger, sterilises without staining, 2 tablespoonfuls making a gallon for general purposes.

PRICES

Minimum retail **1/6**, listed **12/-** per dozen, 3 dozen lots cases and carriage free. Less 2½% cash discount. Packed in square amber magnums (½-lb. approx.) Rubber-corked and capped, labelled with detailed directions.

10% DISPLAY BONUS OFFER *on* 31/6 PARCEL

On all opening orders for 3 dozen and over we will invoice at 10 6 doz n net, showing 43% profit.

Order a 3-dozen case to-day at 31/6 net, yielding 22/6 net profit. For immediate delivery.

Liberal supplies of leaflets and showcards, with dummies for window display.

Ask for particulars of our local advertising scheme.

LAWSON & CO. (BRISTOL) LTD., St. Philip's, BRISTOL.

GLASGOW DEPOT—3 Cadogan Street.

Wholesalers Stocking include MAY, ROBERTS, and SANGERS, LONDON; and WOOLLEY'S, MANCHESTER.

SEASONABLE
Summer Specialities

The Sales of which are Exclusive to the Drug Trade.

The Pharmacist "abreast of the times" can attract business by making a display of something new in a SUMMER DRINK—

TONIC HERB BEER TABLETS

One tablet (slightly crushed and added to ¼-pint water) produces one glass of excellent beer—FOAMING, STIMULATING, REFRESHING—identical with the best beer in taste and appearance—everything but the alcohol.

Tastefully packed, retailing at **1/6** per box of 25 tablets, **12/-** per dozen boxes. Attractive Showcards.

Include a three-dozen trial order with your next goods. We shall be ready for your "repeats."

"EASIPED" FOOT BATH TABLETS

A Refresher of the Feet, with Distinctive Qualities.

The relaxed weary condition of the feet on warm days, due to long standing, is pleasantly and successfully remedied by the use of "**EASIPED**" **FOOT BATH TABLETS.**

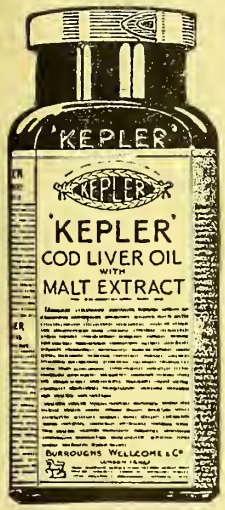
IMMEDIATE IN ACTION, PERMANENT IN RESULTS.

In Attractive Package—Wholesale Prices—
5/- per dozen bottles containing 20 tablets.
8/- ,, ,, 40 ,,

ISSUED FROM THE LABORATORIES OF

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf - - - - Mile End, E. 1.



Supplies of high quality malt and oil are notably short, and the danger of receiving inferior products is thereby intensified.

THEREFORE BE ON THE SAFE SIDE BY ORDERING

TRADE **'KEPLER'** MARK

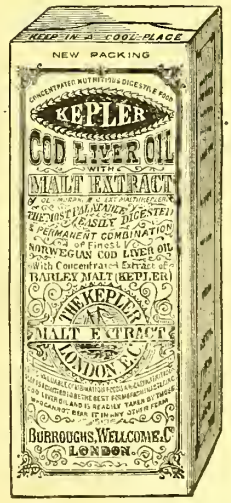
Cod Liver Oil with Malt Extract

Because the high standard of quality maintained through many years is still the outstanding feature of this valuable Food Tonic.

REMEMBER

Every time you sell 'Kepler' Cod Liver Oil with Malt Extract you increase your reputation for selling the best.

Issued in bottles of two sizes at 33/0 and 60 0 per dozen (subject)



BURROUGHS WELLCOME & CO.
LONDON

G 909

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"JASMOL"

VANISHING CREAM.

An ideal TOILET CREAM, well got up, exquisitely perfumed, NON-GREASY or STICKY, packed in screw Glass Bottles, Aluminium Capped and nicely cartoned.

Retails at 1/3 Wholesale Price 10/- per doz.

LESS USUAL DISCOUNT. HANDSOME PICTORIAL SHOWCARDS SUPPLIED.

"JASMOL" is a line that repeats many times over when once introduced.

Sole Manufacturers,

CUPAL Ltd., BLACKBURN

'Ialine' Disinfectants

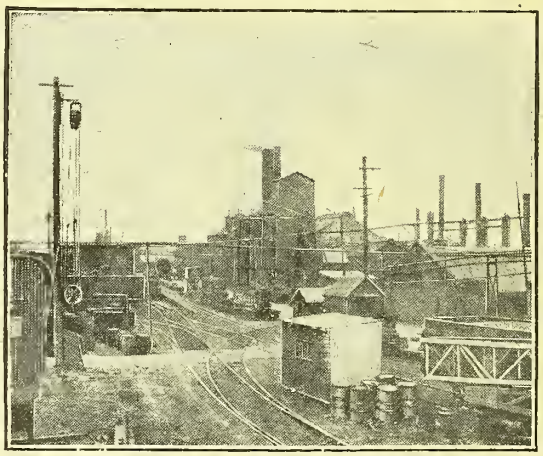
Also
FLUIDS
containing
10 — 80 %
Tar Acids.

High Co-efficient FLUIDS
up to 18—20
Rideal-Walker
Method.

LYSOL

SHEEP DIP

Approved by the Board of Agriculture for Sheep Scab.



Coal Tar and Ammonia Products

Benzols, Toluol, Solvent Naphthas, Carbolic and Cresylic Acids, Creosote and Fuel Oils, Pitch, etc. etc. Timber for Dock and Harbour work. Deals, Battens, Boards, Floorings, etc. Railway Sleepers and Crossing Timbers, Telegraph Poles, etc. etc. Saw Millers and Timber Preservers.

Burt, Boulton & Haywood, Ltd. Salisbury House, London Wall, E.C. 2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London."
Codes: A B C (5th Edit.); Lieber's; Western Union; Bentley's.

CARBOLIC POWDERS
CREOSOTE POWDERS
CO-EFFICIENT POWDERS
PINE OIL POWDERS
PINE OIL FLUIDS
PINE OIL BLOCKS
NAPHTHALENE BALLS
" CANDLES
" TABLETS
" FLAKE
" BLOCKS
" POWDER
LIQUID SANITARY SOAP
WOOD PRESERVATIVE
ETC. ETC.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

HE CHEMIST AND DRUGGIST is in circulation and reputation e leading journal addressing the Chemical and Drug trades in the ritish Empire and other countries in the Old and New Worlds. It the official organ of the Pharmaceutical Society of Ireland, the hemists and Druggists' Society of Ireland, and of many Chemists' ocieties in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary.* Subscriptions may begin with the first issue of any month. Single Copy 9d. post free; *Diary*, 5s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

erms for Advertising may be obtained on application to the Publisher EAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4. elegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines). RANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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Index to Volume XCII.

HE index to Volume xcii. (which finished with the sue of June 26) is now ready, and will be sent to those ho have already intimated that they desire copies. Any f our subscribers who require the index and have not ent us a postcard request for a copy should do so at nce.

New Book.

National Union of Manufacturers, Descriptive and lassified Directory of Members. $7\frac{5}{8}$ in. × $4\frac{7}{8}$ in. p. 241. 5*s.* net. (National Union of Manufacturers, Holborn Viaduct, London, E.C. 1.) [List of members nd their addresses arranged in alphabetical order, showing the goods manufactured and giving telephone numbers. The constitution of the various committees is given. Vith the union are affiliated other bodies, such as the urgical Instrument Manufacturers' Association, the ondon Glass Bottle Manufacturers' Association, and the nperial Institute of Patentees.]

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Profits on Soda Crystals.

A report of the Central Committee, Profiteering Act Department of the Board of Trade, states that the Preliminary Investigation Sub-Committee of the Complaints Standing Committee has considered twelve cases relating to soda crystals. The profits disclosed ranged from 17 per cent. to 53 per cent. on brokerage transactions. The sub-committee decided that all these cases should be referred to the Director of Public Prosecutions.

Supply of Spectacles to Pensioners.

Mr. J. H. Sutcliffe, superintendent of the Optical Appliances Depôt (Ministry of Pensions), sends us a copy of a letter which has been sent to opticians in certain counties regarding the supply of spectacles to Service pensioners:

Since 1916 and the inception of the Army spectacle scheme spectacles have been supplied to certain pensioners through the regular channels of the various Army ophthalmic centres and the Army spectacle depôt by Army surgeons and Army opticians.

The testing and prescribing for these spectacles now takes place at the Pensions Ophthalmic Boards in the various regions, but it is suggested that the taking of the frame-measurements and any subsequent frame-adjustment shall be carried out by a qualified civilian optician.

The procedure to be followed will be that the pensioner will call upon the optician with his prescription. The optician will then take the necessary measurements, inscribe on the form the frame number and any alterations, and sign the form as complete. The pensioner will return to the Commissioner of the Board, who will despatch the prescription to the depôt, receive the spectacles, and notify the pensioner when returned. Should the frame require adjustment, the wearer will call upon the optician. Possibly other slight variations upon this procedure may be found more convenient.

The optician's fee for such measurements in each case is 2*s.* 6*d.* This amount has been arrived at after consultation with the British Optical Association, the Spectacle Makers' Company, and the Institute of Ophthalmic Opticians.

I am directed by the Ministry of Pensions to ask you if you would like your name to be included in the list of qualified opticians willing to undertake the work.

As the matter is urgent will you please let me know by return?

Mr. Sutcliffe's address is Clifford's Inn Hall, Fleet Street, London, E.C. 4, and chemist-opticians in any part of the country who have not already done so should communicate with him

Fires.

The following outbreaks of fire have been recorded since our last report:

The shop and premises of Noble's Drug Stores, Ltd., 2 Wells Street, London, E.1, were damaged by fire on August 8. The blaze is attributed to a light thrown down in the street.

An outbreak was caused on August 6 at the shop of Mr. J. A. Owen, chemist and druggist, Charlwood Street, London, S.W. 1, by a light being thrown down. The damage was slight.

The premises of Ford, Cook & Co., Ltd., surgical-dressings manufacturers, 6 Well Street, London, E.C. 1, were slightly damaged recently by an outbreak of fire. A defective electric circuit was the cause.

Unauthorised Possession of Drugs.

At Thames Police Court, London, on August 9, John Love, 21 Three Colt Street, E. 14, described as a draper, was remanded on a charge of being in unauthorised possession of cocaine, morphine, and other drugs.

At Tower Bridge Police Court, London, on August 9, William Trigg, an ex-soldier, of no fixed abode, was charged with unlawfully possessing nineteen vials of drugs, and with trying to sell them. He was further charged with unlawfully possessing cocaine. Police evidence showed that the prisoner was arrested at 1 A.M. at a coffee-stall in York Road, S.E., while offering cocaine for

sale. When searched at the police station the vials were found in his possession. Two contained cocaine, three morphine, and the remainder strychnine and other drugs. Further evidence showed that tabloids of cocaine in his possession contained ¼ gr. each. Prisoner, in defence, said the drugs were given him by a soldier to whom he had complained that he could not sleep. The magistrate said that dealing in cocaine was regarded as a very serious offence, and the fact of offering it to soldiers made it all the more serious. Accused must go to prison for four months with hard labour.

Apothecaries' Assistants.

The following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines, as the result of an examination held in London by the Society of Apothecaries, beginning on July 26:

Ainge, C. I.
Barnett, E. M.
Barton, E. M.
Bateman, F. L.
Blunden, M.
Bowen, M. B.
Boyd, R. G.
Brookes, B. M.
Browning, C.
Chapman, D. K.
Cholmeley, B. A.
Christian, E. J.
Clark, D. S. L.
Coates, O.
Colgrave, B. L.
Cosserat, A.
Conlman, M.
Covernton, K.
Cox, E.
Cox, F. B.
Curtois, A. M.
Davies, C. O.
Daly, A.
Dawes, M. L.
Eddowes, R. M.
Evans, M. E. G.
Farrow, D. E.
Fielding, E.
Fisher, K. B.
Ffrench, L. J.
Goudie, B.
Granger, R. L. V.
Gregory, J.
Groves, A. E.
Harries, S. M.
Hawes, U. K.
Hawker, W. A.
Henry, S. M.
Hollowell, M. H.
Humphreys, D. I.
Ibbs, D. M.
Inee, E.
Jeffryes, G.
Jeremy, G. M.
Johnson, B. M.
Johnson, I. M.
Johnson, M. E.
Jones, E. H.
Jones, G. L.
Jones, O. L.
Junkison, L. K.
Keen, H.
Lawson, J.
Maisey, E. M.
Martin, M. R.
Massey, M. J.
May, E. J.
Merry, R. L.
Moody, M.
Morley, E. K.
Murchie, J. M.
Murdoch, R.
Naylor, E. A.
Nicholson, M.
Nightingale, F.
Nott, B. E.
Noyes, L. A.
Pakenham, O. D.
Pennington, M. A.
Penrose, M. E.
Pilgrim, M. I.
Purchas, K. J. C.
Ramsey, M. T.
Robertson, W. M.
Rounthwaite, D. M.
Rowley, I.
Sargent, O. M.
Scott, H. M.
Selle, A.
Shearer, E. H.
Smythe, L. G.
Stallard, M. I.
Stanier, Wilfred
Strange, I. M.
Strong, A. D.
Stuart, B. M.
Sweeten, O. M. C.
Taylor, F. MacD.
Theobald, M. H.
Thomas, D. M.
Thomas, E. M.
Thomas, W. F. P.
Thomson, A. M.
Tyaeke, E.
Verney, K. O.
Walker, E. M.
Walker, W.
Watts, D.
Williams, E. T.
Woodard, F. M.

Chemists' Retail Price Lists.

The following are among the alterations and additions in the current issue of the London Chemists' Retail Price List: *Drugs.*—Acid. oxalic. coml. opt., 7*d.* oz.; ammon. brom., 2*d.* dr.; anthem. flor. exot., 4*d.* oz.; cera alb. in placent., 5*d.* oz.; composition essence, 6*d.* oz.; eau de Cologne, extra, 3*s.* 1*d.* oz.; lin. A.B.C., meth., 1*s.* 1*d.* oz.; lin. ammon., 6*d.* oz.; lin. methyl sal. co., 1*s.* 11*d.* oz.; lin. saponis, B.P., 11*d.* oz.; menthol, 1*s.* dr.; ol. caryoph. ang., 7*d.* dr.; ol. lini opt., 2*d.* oz.; oxymel scillæ, 3*d.* oz.; sal. acetos., 9*d.* oz.; shellac aur., 1*s.* 1*d.* oz.; sodii sulph., pea cryst., 1*d.* oz., 11*d.* lb.; spt. æther. nit., 10*d.* oz.; spt. ammon. arom., 8*d.* oz.; spt. camphor., 1*s.* 2*d.* oz.; sulphur præcip., 3*d.* oz.; tinct. benz. co., 1*s.* oz.; tinct. camph. co., 8*d.* oz; tinct. chlorof. et morph. '85, 1*s.* 1*d.* oz.; tinct. guaiaci, 1*s.* 3*d.* oz.; tinct. iodi mit., 1*s.* oz.; tinct. iodi decolor., 1*s.* 3*d.* oz.; tinct. myrrh., 1*s.* 2*d.* oz.; tinct. myrrh. et borac. (E.D.C.), 1*s.* 10*d.* oz.; tinct. quininæ, 2*s.* 10*d.* oz.; tinct. quin. ammon., 10*d.* oz.; ung. hydrarg. subchlor., 9*d.* oz. *Capsules.*—Amyl nitrite, miij., 3*s.* doz. *Bandages.*—Open wove, No. 1, 1-in., 5*d.*, 2-in., 8*d.*; No. 2, 1-in., 4*d.*, 2-in., 6*d.* Crêpe, 2-in., 2*s.* 6*d.*, 4-in., 4*s.* 6*d.* *Gamgee Tissue.*—¼ lb., 1*s.* 9*d.*, 1 lb., 5*s.* 3*d.* *Gauzes.*—Boric, 10*d.* yd.; plain, 9*d.* yd.; double cyanide, 1*s.* yd. *Lint.*—Boric. 25 per cent., 7*d.* oz.

The following are among the alterations and additions in the current issue of Philip's "Standard" Retail Price List: *Drugs.*—Acac. gum. alb. elect., 8*d.* oz.; ac. carbol. cryst., 5*d.* oz.; ac. carbol. liq., 4½*d.* oz.; ac. salicyl., B.P., 9*d.* oz.; adeps lanæ hyd., 3½*d.* oz.; alum. pulv., No. 1, 1½*d.* oz.; ammon. carb. pulv., No. 1, 4½*d.* oz.; ammon. chlor. coml., 1½*d.* oz.; antim. nig. pulv., 1½*d.* oz.; aq. anethi, 1*d.* oz.; aq. lavand., No. 1, 2*s.* 6*d.* oz.; aq. rosæ, 1*d.* oz.; aq. sambuci, 2*d.* oz.; arecæ pulv., 3*d.* oz.; calx chlorinat., 1½*d.* oz.; cera alb. placent., 5½*d.* oz.; cera flav. exot., 4*d.* oz.; cold cream, No. 2, 5*d.* oz.; conf. sennæ, 5½*d.* oz.; conf. sulphuris, 6*d.* oz.; cret. c. camph., 12½ per cent., 4*d.* oz.; eau de Cologne, No. 1, 2*s.* 5*d.* oz.; No. 2, 1*s.* 9*d.* oz.; ess. menth. puleg., 1 in 10, 1*s.* oz.; hydrogen. peroxid., 10 vol., 2*d.* oz., 20 vol., 3½*d.* oz.; lin. camph., B.P., 8*d.* oz.; lin. camph. ammon. meth., 7*d.* oz.; lin methyl sal. 1*s.* 4*d.* oz.; lin. saponis meth., 4½*d.* oz.; menthol, 1*s.* 1*d.* dr.; ol. caryoph., 5*d.* dr.; rhei pulv. opt., 4*d.* dr.; sal. acetos. pulv., 10*d.* oz.; sang. dracon. pulv., No. 2, 1*s.* oz.; spt. æther. nit., 7*d.* oz.; spt. ammon. arom., 7*d.* oz.; spt camph., 1*s.* oz.; tinct. benz. co., 9*d.* oz.; tinct. camph. co., 7*d.* oz.; tinct. iodi mit., 9*d.* oz.; tinct. myrrh., 10*d.* oz.; tinct. quin. ammon., 9*d.* oz.; ung. ac. carbol., 4½*d.* oz.; vin. ipecac., 8*d.* oz. *Goods Sold by Pint, etc.*—Ac. carbol., straw, 1*s.* 10*d.* pint; black, 1*s.* 1*d.* pint; liq. calcis, 4*d.* pint; ol. lini, 2*s.* 3*d.* pint; spt. vini meth., 2*s.* 2*d.* pint. *Packed Goods.*—Boric lint, 2-oz., 10*d.*, 4-oz., 1*s.* 6*d.*

A note in the current issue states that, although the drug-market has a downward tendency, practically all drugs are advanced in price. It has been found impossible to correct all the prices before publishing the list.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Biggin, Derbyshire, an infant died after taking some morphine pills left within its reach.

At Shadwell, London, E., Emily Bloomfield (53) committed suicide by taking phosphorus paste.

At Hoxton, London, E., Ellen Dunford (47) committed suicide by taking spirit of salt while of unsound mind.

At Stonebridge Park, Albert E. Pont (21), an ex-soldier, committed suicide by taking spirit of salt while of unsound mind.

At Hammersmith, London, W., a verdict of "Accidental death" was recorded at an inquest on the body of a boy named Munn, who drank from a bottle containing carbolic acid when thirsty. A police constable deposed to giving the deceased Epsom salts in warm water by way of first-aid, but without avail.

At Hastings, on August 5, an inquest was held on the body of William Howe, engineer, Bexhill. The evidence showed that he was about to be radiographed at the Buchanan Hospital, St. Leonards, and by mistake barium carbonate was administered to him instead of barium sulphate. It was stated that another patient had died just previously in similar circumstances. The sister in charge said that she did not notice that the bottle used had not a "Bismuth" label, but even if she had she would still have used it, as she did not know the difference between the two substances. Medical evidence having been given to the effect that death was due to poisoning, a verdict of "Death by misadventure" was returned.

Contracts.

The following tenders have been accepted by the bodies named:

Holywell Guardians.—Evans Sons Lescher & Webb, Ltd., drugs.

Winchester Guardians.—Eldred & Inge, chemists, drugs, etc.

Birmingham.

The University fees are to be increased by 25 per cent.

A local pharmacist inquires whether the railway clerks will give pins for the farthing change!

The outbreak of scarlet fever still shows no sign of abatement. Fortunately, it is of a very mild type.

Throwing turpentine on the fire resulted in a Birmingham girl, aged eighteen, being severely burned recently.

Mr. H. W. Bland, son of Mr. J. W. Bland, chemist and druggist, Moseley Road, who is a student at Birmingham University, has recently passed the second examination (Part 2) for medical degrees in London University.

The Medical Adviser of the West Bromwich Insurance Committee complains that the Birmingham Pensions Medical (Special Tuberculosis) Board appear to be diagnosing cases as tubercular on mis-statements of patients and after inefficient medical and special (sputa) examinations.

The Midland Institute is the successor of a "Mechanics' Institute," founded in Birmingham in 1826. Meetings were then held in a denominational schoolroom, and the course of thirty-five lectures included twelve on chemistry, which thus occupied a prominent position in the scheme.

Liverpool.

Mr. G. H. Cole, Blundellsands, is on holiday at Llandrindod Wells.

Mr. Henry Peet has accepted an invitation to address the Rotary Club on "Parish Churches."

Mr. John Jones (W. & J. Ferguson) has returned from a month's visit to Lisbon and the Canaries.

The spurt of fine weather proved brief. Rain and low temperatures have rendered the redressing of windows imperative.

The sales-room of Evans Sons Lescher & Webb, Ltd., has lately received some finishing touches. It forms a fine example of show-case display.

Mr. L. Walker, Manor Pharmacy, Great Crosby, has secured a *locum tenens* for his first holiday since taking over the business of the late Mr. J. Hargreaves.

"Bring your films here for development" runs the notice in the increasing number of pharmacies in which a window is devoted to cameras and photographic materials.

So impressed with the charms of Scarborough as described by Mr. Whitfield (in his invitation to the British Pharmaceutical Conference) were his hearers, that some of them are going there for a holiday this season.

Mr. Reginald H. Spooner, who will captain the English cricket team for the Australian tour, is the son of the Archdeacon of Liverpool, the preacher at the British Pharmaceutical Conference service in Liverpool Cathedral.

The results of the July examinations for part-time students at the Liverpool School of Pharmacy are as follows: *Botany.*—(1) Miss Scott, Miss Walley (equal); (2) Miss Stephenson; (3) Mr. Cowie. *Chemistry.*—(1) Mr. Ward; (2) Miss Walley; (3) Mr. Cowie. *Pharmacy.*—(1) Mr. Maitland; (2) Mr. Ward; (3) Miss Walley. *Physics.*—(1) Mr. Cowie; (2) Mr. Ward; (3) Mr. Maitland.

The death of Mr. Joseph Wright (see p. 59) recalls the fact that, some fifteen years ago, he was the second local chemist and druggist to have a son as Senior Wrangler at Cambridge, and shared that honour with the late Mr. Pendlebury, whose pharmacy was at the corner of Brownlow Hill and Russell Street. When Mr. Pendlebury's son became Senior Wrangler, forty-three years ago, the then Mayor of Liverpool called in his state carriage to congratulate Mr. Pendlebury.

Sheffield.

Payments for Insurance dispensing for the month amount to 1,419*l.* 11*s.* 6*d.*

Wallace Heaton, Ltd., photographers, have taken new premises in Change Alley and Norfolk Street.

Reference was made in this column some weeks ago to the extensive alterations to the premises of G. T. W. Newsholme, Ltd., High Street, of which company Mr. . Austen, Ph.C., is managing director. New fittings by . Maw, Son & Sons, Ltd., are now being installed. It interesting to note that the winner of the Hewlett Exhibition this year, Mr. Douglas Stephenson, chemist and druggist, was apprenticed to Messrs. Newsholme.

Miscellaneous.

Poison-licence Application.—T. Burgess, jun. (trading Burgess & Son), seedsman, Herd Street, Marlborough, has applied to the local authority for a licence to sell horticultural poisons.

In the Courts.—At Llandaff Police Court, on August 9, C. Paley, described as a wholesale chemists' traveller, was convicted of desertion, and was ordered to pay the sum of 2*l.* a week to his wife, to whom was granted the custody of the child.

Irish News.

Brevities.

Sir Stanley Harrington was one of the deputation appointed at a public meeting in Cork recently to interview the Prime Minister regarding the present condition of Ireland.

At the recent examination of the Royal College of Physicians and Surgeons, Edinburgh, and the Royal Faculty of Physicians and Surgeons, Glasgow, for the diploma in medicine, surgery and midwifery, Mr. McMullan, Ph.C., Main Street, Larne, formerly of Banbridge, was one of the successful candidates. Dr. McMullan studied at the Queen's University, Belfast, the Royal Victoria Hospital, Belfast, and at the Royal Infirmary and Royal College of Surgeons, Edinburgh.

Scottish News.

Brevities.

Mr. T. G. Cochrane, chemist and druggist, has taken over the Medical Hall, Catrine.

Dunn & Robertson, chemists, Selkirk, have secured the contract for the supply of drugs, etc., to the local parish council.

Mr. John S. Lowe, chemist and druggist, has acquired the business of Mr. W. Dow, chemist and druggist, High Street, Kinross.

Edinburgh.

A "sweetie" shop in a side street has a window-display of a world-renowned tooth-paste, flanked by sticks of "gundy" and toffee apples.

An outbreak of fire occurred at the glassworks of Webb & Co., Norton Park, on August 7; it was extinguished after considerable damage had been done.

Entitled to the cost of his medicine from the Ministry of Pensions, a man named Barr falsified his receipts and so obtained extra money. He was fined 10*l.* in Edinburgh Sheriff Court on August 10.

A suspected case of small-pox was reported to the Edinburgh health authority on August 7. *A propos*, a pamphlet dealing with vaccination, written by a pharmacist of the Old Town, is on sale at the book-stalls.

Glasgow.

The municipal rate is to be increased by 1*s.* 7½*d.* in the £, making the total rate 15*s.* 4*d.* in the £. With the average advance of 25 per cent. in house rents, a record burden is imposed on Glasgow householders.

Business Changes.

Polak & Schwarz, Ltd., Zaandam, Holland, inform us that Mr. Samuel Schwarz has been elected a director of the company in the place of the late Mr. Leopold Schwarz.

Strode Cosh & Penfold, chemists, Bristol, have purchased the business of the late Mr. D. Llewellyn, chemist and druggist, Cheltenham Road. The business will be carried on as a branch.

Mr. F. Heap, chemist and druggist, Worsley Road, Farnworth, has purchased the business of Mr. V. E. W. Dixon, chemist and druggist, Elland. Mr. Heap has for the past six years been a manager for Charles Midgley, Ltd., St. Anne's Square Pharmacy, Manchester, and was previously with Reynolds & Branson, Ltd., Leeds.

Sale of Property.—The trustees under the will of the late Mr. J. C. Eno have recently disposed of several lots of property in Newcastle-on-Tyne. One block, known as Eno's Chambers, Collingwood Street, was sold for 9,300*l.*

French News.

(From the "C. & D." Paris Correspondent.)

A Pharmacist's Threat.—A pharmacist of St. Trond, who went to Spa recently with a revolver to shoot Marshal Foch, has been committed to prison. He is silent as to his motives, and has been examined by a specialist in lunacy.

A Pharmaceutical Section was organised by Professor Massol (director of the Montpellier Faculty of Pharmacy) in connection with the 1920 meeting of the French Association for the Advancement of Science, held at Strasbourg last month.

M. Renon has studied fenugreek, which is said to have great nutritive value. M. Herrissey, pharmacist of the Necker Hospital, Paris, succeeded in deodorising the dried seeds, and M. Renon utilised these in his treatment of influenza convalescents.

New Salt for Epilepsy.—MM. Pierre Marie, Crouzon, and Bouttier informed the Academy of Medicine recently that potassium boro-tartrate is as efficient as anti-convulsive in cases of epilepsy as bromide, and does not produce skin troubles, nor has it a depressing effect.

M. Dault, pharmacist, of the Saint Malo (Civilian) Hospital, calls attention to the fine old drug-pots, mortars, alembics, etc., of the seventeenth and eighteenth century which are to be found in the Hôtel Dieu, General Hospital, and Dispensary of the Sisters of Charity of this popular coast resort.

The Minister of Hygiene has just nominated the members of the Committee of Anti-Venereal Prophylaxis. The chairman is M. Emile Vincent, of the Chamber of Deputies, his colleagues being eight medical men, one lady, and M. Henri Martin, President of the General Association of French pharmacists.

Storing Iodine.—M. Delestrac stated recently that iodine vapour is so volatile that it will leak past the best emery-ground stoppers. The only remedy seems always to have iodine in excess of the standard. Speciality goods might be put up in sealed glass tubes, to be broken at the moment of using. He also described his cold process for preparing iodised cotton-wool.

Hospital Laboratories Credits.—The credits annually allowed to certain laboratories of Parisian hospitals, Dr. Calmels pointed out in a recent report, have become insufficient. He proposed certain modifications in the budget of "Public Assistance" in order to meet this difficulty. He also proposes to raise the salaries of those connected with the municipal laboratories of radiography.

M. Jean Legendre stated, in a paper read at the Academy of Science, that domestic animals form a valuable protection against mosquito bites. *Anopheles maculipennis* seems particularly to fancy the domestic rabbit, although other short-tailed animals, like the pig, offer these insects an attractive prey. Fowls and the feathered tribe are no protection.

Zacharie Roussin, the almost forgotten French discoverer of certain aniline dyes, was honoured recently at the Rennes School of Medicine and Pharmacy, at which he was formerly a student, by the unveiling of his bust (executed by a local sculptor) in bronze. M. Lenormand, Professor of Analytical Chemistry and Toxicology at the school, who organised this commemorative ceremony, has been awarded the Cross of the Legion of Honour.

Alsatian Potash.—M. Lindet reported to the Academy of Agriculture that the Alsatian potash mines are still under "sequestration." The inundated mines had been pumped out, twelve were working, and five were being bored. The daily extraction was 3,600 tons (700 tons K_2O). Under the German *régime* the output was limited by the Kalisyndicat to 70,000 tons K_2O, so it is hoped that shortly France will be able to place large quantities on the market.

The annual "concours des internes," or Paris hospital house-pharmacists' competitive examination, took place recently before a jury of five, M. Meillère, as chairman, being supported by three head pharmacists of Paris hospitals and by M. Vaudin. M. Bouillot was awarded the gold medal in the first division, M. Regnier the silver medal, and M. Chartier was honourably mentioned. All three were recommended for a fifth year of "internat"—the extra privilege accorded to prize-winners. In the second division M. Choay gained the silver medal.

The Sixth Committee of the Paris Municipal Council is considering a proposal to develop the Municipal Laboratory. Up to the present the duties of this establishment have been purely analytical, particularly in the direction of beverages. The new idea, which was to add a laboratory of scientific research, was approved by the committee, after consultation with the Prefect of Police, M. Raux, who emphasised, however, the necessity of having under his own authority an analytical laboratory as an indispensable adjunct to the repression of adulteration.

M. Jules Forestier, the colonial administrator who recently died at Gex (his native town), was a military pharmacist in his younger days. He was studying at the famous Sanitary School of Strasbourg when the 1870-1 war broke out, so he took his degree at Montpellier, whither the School of Pharmacy had been transferred after the siege of Strasbourg. He went through Val-de-Grâce after the Commune, and afterwards to Algeria. Cochin China was then being developed. When volunteers were called for young Forestier went to Saigon on temporary leave, there to find his career.

M. Viala has recently published the following statistics of results in the anti-rabies service of the Pasteur Institute, Paris:

	Patients	Deaths		Patients	Deaths
1915 ...	... 654	1	1918 ...	... 1,803	3
1916 ...	... 1,383	3	1919 ...	... 1,815	5
1917 ...	... 1,543	4			

Most cases come from in or around Paris. Last year the Seine and Seine-et-Oise sent 787 patients, or nearly half the total.

M. Beckerich, pharmacist at Longwy-Bas (Meurthe and Moselle), had two sons in the war. The first (a third year pharmacy student at Nancy) was mobilised in the ambulances at Longwy when the Germans besieged the town. As often as the Red Cross flag which floated over the hospital was shot down, he volunteered to re-hoist the emblem more or less protective of those under his care, and he was finally buried alive under the ruins of a casemate in which he was tending the wounded with his usual "complete contempt of danger." The second son of the pharmacist was also killed in action. The Military Medal has been posthumously awarded to both these gallant young Frenchmen.

Hospital House Pharmacists.—There were 105 candidates at the recent entrance examination for *internes*, of whom some twenty were ladies. Special conditions prevailed in this examination, points being awarded for military service, etc. There were fifty-four vacancies. The jury recommended that the first twenty-nine should be filled by those standing highest on the list of marks (twenty-three men and six ladies), and that the other places should be awarded to nineteen "military" and six "mobilised" candidates. Those in the second category (Nos. 30 to 58) who found themselves superseded by one of these military candidates could be placed on the list for provisional vacancies.

M. H. Gautier, director of the Paris Superior School of Pharmacy, has been officially nominated "Dean of the Faculty of Pharmacy of the University of Paris." The text (just published) of the report of the Minister of Public Instruction to the President of the Republic shows the illogical system of describing the higher educational establishments as "schools" and the secondary ones as "faculties." A layman might suppose that a "Professor of the Mixed Faculty of Medicine and Pharmacy of Toulouse" was a more important academical personage than a "Professor of the Superior School" of Paris. The signing of the decree seems to imply that this argument was accepted by the authorities.

Colonial and Foreign News.

The Smyrna "Black Gang."—In our issue of August 7 (p. 77) we published a warning to the drug-trade against the operations of the "Black Gang," which has been resuscitated at Smyrna and Constantinople. Many of these fraudulent traders were operating prior to the war, but they have now adopted "aliases." They usually send samples of excellent quality of produce offering at a low price, but if anything is shipped at all it is merely rubbish.

Proprietaries in Czecho-Slovakia.—The Ministry of Public Health has issued a circular reminding pharmacists that all foreign specialities must first be submitted for approval to the Ministry before their sale is permitted, and only those preparations which have been reported to the authorities since the creation of the new Republic may be sold. This regulation applies equally to all specialities, the sale of which was formerly permitted by the Austrian authorities, throughout the territory of the former empire.

Still Going Up!—One would not expect to find an article dealing with the price of coal in a pharmaceutical journal, but the Czecho-Slovak "Apotheker Zeitung" calls attention to the fact that whereas in 1914 one ton of Brüx coal cost 8 crowns, it now fetches 1,312 crowns, an increase of 1,540 per cent. The cost of transport for one ton of coal from Brüx to Reichenberg amounted to 5.90 crowns in 1914; to-day it costs 73.50 crowns, an increase of 1,146 per cent. And those charges will be increased still further!

A Scandinavian Conference.—As many questions which are difficult of solution are pending in the Scandinavian countries in the matter of the regulation of the system of pharmacies, Swedish pharmacists have decided to hold a conference at Stockholm on September 10, 11, and 12 so as to afford an opportunity for a general discussion of the problems of the hour, and invitations have been issued to Denmark, Norway, and Finland to send representatives. Members of the Swedish Board of Medical Administration, the Pharmacy Owners' Society, and the Assistants' Union have signed the invitation, and one of the principal questions to be discussed will be the subject of State pharmacies or the concession system.

Promoting Pharmacy in Holland.—The Netherlands Society for the Advancement of Pharmacy held its annual conference at Bois-le-Duc (Hertogenbosch) on July 28 and 29, under the chairmanship of Heer H. L. Visser (President). The Trust Committee presented a report on the equalisation of financial risks, proposing a system of administering the pharmacies throughout the country on a common basis by an organisation entitled the "Natiopharm," and recommending that each pharmacy-owner member should contribute 5fl. to defray the cost of the preparatory steps. The object is to distribute over the pharmacies combined the financial risks attaching to pharmacies individually, to increase the efficiency by means of co-operation, to effect economies, and establish new pharmacies where required. The committee was instructed to continue its work and submit definite proposals, aided by the funds of the Society. The new scales of salaries for pharmacists engaged in Government institutions having their own pharmacies were approved. It was agreed that the initial salary should be 3,000fl. per annum, rising to 3,500fl. after one year's service and 4,000fl. after two years; an income of 6,000fl. would be reached by annual increments of 250fl. after ten years, and with a further increment of 200fl. per annum for five years the total would amount to 7,000fl. at the end of fifteen years' service. The Council of the Society also presented a resolution inviting the pharmacy-owning members to introduce a scale of payment for assistants on the following basis: No minimum scale of salary is suggested for the first year after qualifying. After one year a minimum salary of 1,200fl. is to be paid for a week of fifty hours, with annual increments of a minimum of 120fl. up to a salary of 1,600fl. for women and 2,000fl. for men as a minimum. In the case of a shorter working week the salary is to be in proportion. If an assistant changes his situation, the time passed with the previous pharmacy counts. Where assistants receive full board and lodging a deduction will be made of, at most, 60 per cent. of the salary up to a maximum of 900fl. per annum. The annual holiday is to be fourteen days, of which at least seven will be consecutive. In the case of illness with less than one year of service the salary is to be paid for at least six weeks, and with a service of up to three years for three months, and so forth. If sick insurance benefit is received the amount is to be deducted from the salary. The salaries are to be brought into agreement with the number of years of service before January 1, 1921. After discussion, the resolution was adopted with an amendment that the salaries of men and women should be the same. The Committee for the Sick Insurance System recommended an amendment of the resolution which was adopted by the Society in August 1917. Members of the Society are now forbidden to enter into a contract with a sick fund or modify an existing contract, to effect deliveries or undertake work for sick funds other than on the conditions approved by the Council of the Society, or to render pharmaceutical aid to the persons insured in an excluded (non-recognised) sick fund otherwise than on the conditions sanctioned by the Council. The amendment was prompted by a dispute which arose recently at Utrecht. In this case a pharmacist had concluded a contract with the Stato Railway Sick Fund, which agreement had not been approved by the Council. The pharmacist concerned then terminated the agreement, but continued to effect deliveries on a verbal agreement. The desirability of admitting members of the Netherlands Pharmaceutische Studenten Vereeniging as junior members of the Society was discussed, and the Council was authorised to enter into an agreement with the Students' Association for the purpose. The Council also undertook to consider the question of admitting pharmaceutical students as reserve pharmacists in the army service. A recommendation was also adopted in regard to a fund for assistants compulsorily insured under the Invalidity Law and who reached the age of fifty on January 1, 1919. Members of the Society will contribute from July 1, 1920, 12c. per week for each assistant in their employ. It was also decided to modify the Society's existing pension fund so as to confer an additional annuity to that received from the State upon recipients of the old-age or invalidity annuity who are sixty years of age or older, and in accordance with the number of weekly premiums paid into the fund.

British Pharmaceutical Conference at Bettws-y-coed.

Taken by Mr. Richard Brown, photographer, 35 Bold Street, Liverpool, on July 22. The original is a panoramic photograph 32 in. long and 8 in. deep. Copies can be had at 4s. 6d. post free. The same artists also took a flashlight photograph (9 × 12) of the dinner in the banqueting-hall of the Exchange Hotel, Liverpool, on July 20. Copies are obtainable at 4s. post free.

Legal Reports.

Medicine-stamp Act Case.—At Cranbrook, on August 5, John T. Allwork was charged on two summonses with selling Kentish Herbal Ointment without a medicine-stamp and without a vendor's licence at Horsmonden. Mr. Bracher, who defended, contended that the words on the label "good for chilblains, etc.," did not bring it within the statute. Mr. Allwork had no intention of breaking the law, and a member of the bar had advised him that he was not liable. The Bench thought Mr. Allwork had been misled by the unknown barrister, and imposed a fine of 5*l.* in each case.

Cocaine Prescription Case.—At Leeds, recently, Mr. Frederick Coleman Long, Ph.C., Headingley, was summoned for dispensing a prescription containing cocaine without complying with the requirements of the Cocaine and Opium Regulation. A local medical man was similarly summoned in respect of the writing of the prescription. A local solicitor, who appeared for the defence (instructed on behalf of the Chemists' Defence Association, Ltd.), explained that the informality in the prescription was purely a matter of detail, and was due to an oversight. Both summonses were dismissed on payment of costs.

Quinine Wine Case.—At Melton Mowbray Petty Sessions, on August 3, Mark H. Beaufoy and Harry M. Beaufoy, trading as Beaufoy & Co., wine manufacturers, London, S.W., were summoned for having committed a breach of the Sale of Food and Drugs Acts by selling on a warranty to Mr. J. Attenburrow, chemist and druggist, quinine wine which was not in accordance with the terms of the warranty, at Melton (*C. & D.*, July 17, p. 48). Mr. G. Rowlatt prosecuted, and Mr. C. S. Bigg appeared for defendants. Mr. Rowlatt having opened the case, Dr. Bernard Dyer said on May 19 he received a sample of quinine wine for analysis, and found that it contained only ½ gr. of quinine hydrochloride per oz. By Mr. Bigg: He knew Messrs. Beaufoy & Co. to be a firm of first-class reputation. Quinine wine prepared according to the formula produced would be quite satisfactory. Dr. Charles Ainsworth Mitchell (London), who said that for twenty-five years he had acted as chemist and scientific adviser to Messrs. Beaufoy, gave evidence to the effect that he calculated the original formula from which their quinine wine was made. He had been consulted by Messrs. Beaufoy with regard to this case, and had made certain recommendations to check any repetition of the mistake. Mr. John C. Hatch, general manager to Messrs. Beaufoy, said neither he nor any member of his firm had any reason to doubt that the wine was made in accordance with the correct formula. On hearing of the proceedings against Mr. Attenburrow, he instructed the counting-house to write round to all probable purchasers about that date, asking them to return their wine. Since then he had made the discovery that one of the foremen, in preparing a pipe of wine, had made a miscalculation. The chairman said the magistrates were quite satisfied that the matter had come about through no desire on the part of the firm, but they were responsible for the actions of their servants, and a fine of 5*l.*, with 15*l.* costs, would be imposed.

Deed of Arrangement.

Nightingale, George, Wesley Buildings, High Street, Llanhilleth; Abercanaway Place, Oakdale; and Church Street, Ystrad Mynach, drug-store proprietor. Trustee: S. E. Clutterbuck, 31 Queen Street, Cardiff. Dated, July 28; filed, August 4. Liabilities, 544*l.*; estimated net assets, 210*l.* Among the creditors are: A. Berton, Ltd., 36*l.*; Butler & Crispe, 17*l.*; Edwards Dental Co., 19*l.*; Ford, Cook & Co., Ltd., 15*l.*; Yardley & Co., Ltd., 22*l.*; Bidwell, Bidwell & Co., Ltd., 10*l.*; Western Dental Co., 29*l.*; Karswood, Ltd., 10*l.*

Bankruptcy Report.

Re Thomas Curtis Read, Crown Works, Guildford Street, York Road, London, S.E., lately of 35 Highfield Road, Dartford, research chemist. The first meeting of creditors under this failure was held at the London Bankruptcy Court on August 5, when a statement of affairs was presented showing liabilities 595*l.*, and assets two oil paintings valued at 750*l.* The Official Receiver reported that a previous failure was recorded against the debtor in 1904. He was subsequently in employment, and during his spare time he was engaged experimenting in research work, with a view of finding a cure for neuritis. At the time of the signing of the armistice he started experimenting on persons who suffered from neuritis and kindred ailments, with very promising results. He expended his savings in propaganda work for exploiting the preparation. Certain gentlemen who had been cured by it expressed a desire to form a syndicate in order to put the medicine on the market, and they financed him to the extent of 250*l.*, but owing to the action of the petitioning creditor the syndicate was in abeyance. The debtor entered into an agreement with a former fellow-clerk named Crisp for the latter to sell on a commission basis the preparation to the extent of 50*l.* per month, but practically sold none. Crisp asked him to send a further consignment of the medicine, but made no mention of the stock previously received. The debtor ignored that request, whereupon Crisp instituted proceedings against him for breach of contract, and obtained judgment for 105*l.* The debtor alleged that his failure was directly caused by that action. A resolution was passed for Mr. F. S. Salaman, C.A., 1-2 Bucklersbury, E.C., to act as trustee and administer the estate in bankruptcy.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Torbet (Northern), Ltd. (P.C.).—Capital, 5,000*l.* Objects: To carry on the business of general merchants, manufacturing chemists, etc. R.O.: 31 St. Andrew Square, Edinburgh.

Sowlers, Ltd. (P.C.).—Capital, 6,000*l.* Objects: To adopt an agreement with J. Sowler, and to carry on the business of manufacturing chemists, etc. R.O.: 40 Carlton Road, Edinburgh.

Punch Forgers, Ltd. (P.C.).—Capital, 1,000*l.* Objects: To carry on the business of metal forgers, and makers of sulphuric, hydrochloric, and other acids. R.O.: Punch Forge, Rockingham Lane, Sheffield.

Flashlight Polish Co., Ltd. (P.C.).—Capital, 1,500*l.* Objects: To take over from G. Devonport certain recipes and raw materials for the manufacture of certain polishes, stains, and varnishes formerly manufactured and sold as "Flashlight." R.O.: 9 St. James' Row, Sheffield.

G. A. Stadler & Co. (1920), Ltd. (P.C.).—Capital, 10,000*l.* Objects: To carry on the business of manufacturers of surgical lathe and racquet gut, goldbeater's skin, etc., and to acquire the business carried on at 2½ Back High Street, Sunderland, as "G. A. Stadler & Co."

Owen Brothers (Birmingham), Ltd. (P.C.).—Capital, 2,000*l.* To carry on the business of manufacturers of and dealers in oils, paints, cements, pigments and varnishes, drugs, chemicals, chemical compounds, etc. Solicitor: H. S. Cleaver, 36 Cannon Street, Birmingham.

Frank Buckler, Ltd. (P.C.).—Limited by guarantee, but having a capital of 1,000*l.*, divided into 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in stationery, perfumery and toilet-requisites, chemists, druggists, etc. R.O. Castle Works, Mount Pleasant Road, Tottenham.

Ouardi Kavala, Ltd. (P.C.).—Capital, 1,155*l.* Objects: To carry on the business of general merchants and

commission agents, tobacco and cigar merchants, chemists, manufacturers of and dealers in chemical preparations, perfumery and articles, cements, oils, paints, pastes, etc. R.O. : 18 Sackville Street, London, W. 1.

Burden & Hawes, Ltd. (P.C.).—Capital, 3,000*l*. Objects : To carry on the business of manufacturers of and dealers in scientific instruments, opticians, makers of *x*-ray apparatus, etc., and to adopt an agreement with J. T. Burden and W. J. Hawes. R.O. : 89 Clerkenwell Road, London, E.C. 1.

Odams Nitrophosphate and Chemical Co., Ltd. (P.C.).—Capital, 25,000*l*. Objects : To take over the business of a company of the same name (in liquidation), and to carry on the business of makers and rectifiers of sulphuric acid and sulphate of ammonia, phosphate grinders, etc. R.O. : 5 Mark Lane, London, E.C.

James Taylor (Trongate), Ltd. (P.C.).—Capital, 30,000*l*. Objects : To carry on the business of wholesale and manufacturing chemists and druggists, druggists' sundriesmen, etc. The first directors are : J. Taylor, 132 Trongate, Glasgow, wholesale chemist; A. Sinclair, Walmer Cottage, Meikleriggs, Paisley, company manager; H. Thomson, Glasgow, commercial traveller, and W. G. Dunn, Rutherglen, commercial traveller.

Magnesium Co., Ltd. (P.C.).—Capital, 75,000*l*. Objects : To carry on the business of chemical manufacturers, metallurgical, manufacturing and consulting chemists, manufacturers of magnesium and its alloys, magnesium and alkali chlorates and metal salts of all kinds, etc., and to adopt an agreement with the Magnesium Metal Co., Ltd., The Magnesium Chloride Co., Ltd., Electro-Chemical Development Co., Ltd., and E. A. Ashcroft. Solicitors : Geo. Reader & Co., 35 Coleman Street, London, E.C.

Society of Radiographers.—(Word "Limited" omitted from title by licence of the Board of Trade.) Limited by guarantee. To promote the science and regulate the practice of radiography. The first directors are : Dr. F. Herman-Johnson, M.B., 87-89 Mortimer Street, W. 1, medical practitioner; Dr. R. Knox, M.B., 38 Harley Street, W., medical practitioner; Dr. S. Melville, L.S.A., 9 Chandos Street, W., medical practitioner; Dr. G. H. Orton, M.A., 67 Upper Berkeley Street, W., medical practitioner; Sir Archibald Reid, K.B.E., C.M.G., 30 Welbeck Street, W., medical practitioner; Professor S. Russ, 19 Northumberland Mansions, Northumberland Street, W., medical practitioner; Dr. W. H. Eccles, 2 Ryder Street, W., Professor Finsbury Technical College; J. S. Highfield, 19 Cottesmore Gardens, Kensington, W. 8, consulting engineer; C. C. Paterson, O.B.E., 10 Walpole Gardens, Strawberry Hill, Twickenham, electrical engineer; A. A. Campbell Swinton, F.R.S., 66 Victoria Street, S.W., electrical engineer; Dr. R. M. Walmsley, F.R.S.E., 23 Hilldrop Road, N. 7, Principal Northampton Polytechnic Institute; C. H. Wordingham, C.B., Beechgrove, Ridgeway Road, Redhill, consulting engineer; R. G. G. Blackall, Romany Villa, Endway, South Benfleet, radiologist; C. O. Forder, 55 Playfield Crescent, East Dulwich, radiologist; H. Henry, Queen Alexandra Military Hospital, Millbank, radiologist; H. Turner, Middlesex Hospital, W.C., radiologist; G. F. Westlake, 93 Clarendon Road, Putney, S.W., radiologist; F. E. Doran, 46 Carill Drive, Fallowfield, Manchester, radiologist. Solicitor : O. W. Bristow, 1 Copthall Buildings, London, E.C.

Joint Stock Co.—Notice is given in the "London Gazette" that the name of U.K. Chemical Products, Ltd., has been struck off the Register and the company dissolved.

A. Wander, Ltd., 45 Cowcross Street, London, E.C., have been licensed to carry on the business of chemists and druggists in Ontario, Canada, with a capital not exceeding $40,000.

Kemp & Co., Ltd., Bombay.—The report of the directors for the year ended March 31, 1920, states that the balance of profit and loss, including Rs. 1,998-1-4 carried forward from last year amounts to Rs. 70,169-5-1, out of which the directors have written off for depreciation Rs. 11,000, leaving a balance of Rs. 59,169-5-1, which they recommend to be disposed of as follows :—Dividend of 10 per cent. or Rs. 20 per share, Rs. 40,000; reserve fund, Rs. 6,000; pension and relief fund, Rs. 2,000; bonus to staff, Rs. 5,000; carry forward, Rs. 6,169.

Italian Chemical Dividends and New Companies.—The soap-works of Saponerie Fratelli De Bernardi, in Genoa, made a net profit of 449,021 lire on a capital of 2,000,000 lire during its last financial year.—The glass-works known as Società Vetraria dell'Italia Centrale, with headquarters in Rome and a capital of 900,000 lire, has decided to bring this capital to 1,500,000 lire.—The tannic-acid works known as Società Ligure Acido Tannico, of Genoa, with a paid-up capital of 1,500,000 lire, has decided to increase it to 3,000,000 lire.—The Società Anonima Italiana di Profumeria ed Affini Adonia has been established in Milan, with a capital of 1,000,000 lire, for the manufacture of perfumery products.—In the Middle Italian city of Piacenza the firm of Sinigaglia e Bagliani, having a capital of 100,000 lire, has been founded for a period of twelve years for the manufacture and sale of medicinals, mineral waters, chemicals, etc. The head-quarters will be in Via G. Carducci, at Piacenza.—The firm of Gaetano Torrente has been established at Palermo, with a capital of 20,000 lire, for fifteen years, to trade in pharmaceutical products, drugs, and chemicals.—Under the name of Laboratorio Chimico Farmaceutico Moderno Granelli, Candiani e C., a company has been established in Turin, with a capital of 1,200,000 lire, for the manufacture of drugs and medicinal products.—The Sindacato Farmaceutico di P. Barbieri e C. has been established in Milan for the manufacture of pharmaceutical products, drugs, and chemicals, with a capital of 150,000 lire.—Under the name of Medici e Sangregorio, a firm in Milan, having a capital of 20,000 lire, has commenced business in drugs, medicinals, and fine chemicals.

Smith, Stanistreet & Co., Ltd.—The directors' report for the year ended March 31, 1920, states that, after providing for the usual depreciation and other charges, making provision for income-tax and supertax, and after payment of the interim dividend on preference shares on September 30, 1919, the profit and loss account shows a credit balance of Rs.2,38,640-8-7, which includes the sum of Rs.4,083-1-2 brought forward from last year's account, and the directors recommend this should be dealt with as follows : To payment of dividend on preference shares for the six months ended March 31, 1920, Rs.17,500; to payment of dividend of 20 per cent. on ordinary shares, Rs.2,00,000; to writing down goodwill, Rs.20,000; to be carried forward to next year's account, Rs.1,140; total, Rs.2,38,640. The directors are pleased to report that business has continued good, although since the declaration of peace certain items (which were exclusively war demands) have been discontinued, and export trade in respect to these has ceased, but by way of replacement the manufacture of alkaloids from indigenous drugs has been placed on a sound footing; the experimental machinery imported for this has proved a success, and a further installation of machinery has been ordered, which it is hoped will be erected and in full work before the end of the current year. Outstandings have been reduced by approximately Rs.85,000, and liabilities have been reduced by Rs.1,40,000 approximately. Notwithstanding the reduction of liabilities, the company is in the gratifying position at the close of the year under review of possessing a cash balance (including various deposits) of over Rs.2,20,000. A further Rs.30,000 has been reserved for payment of supertax for 1919-20 and income-tax for 1920-21. As regards goodwill, last year a reserve of Rs.20,000 was effected against this item. The directors propose that this be applied to writing down the existing value of goodwill, and a similar amount is being appropriated this year. The finances of the company are in a considerably sounder position than at this time last year, and the further increase in the manufacture of goods formerly imported to India and of alkaloids for export should continue to place the company in a very strong position in the future. Mr. Leslie is unable to sign the report, as he is in England.

The Pharmaceutical Balsams.

An exhaustive study of the characters and tests of copaiba, Peru, and tolu balsams has been undertaken by Professor L. Van Itallie in the pharmaceutical laboratory of the University of Leyden, who also included in the course of his investigations a comparative study of the requirements and standards established by the different Pharmacopœias, and by other investigators. He summarises the results of his observations in formulating the text, which, he suggests, should be adopted for inclusion in the Pharmacopœia for each of these three balsams, as follows:

Copaiba.

The balsam obtained from the wounded trunk of various South American species of *Copaifera*.

A clear oily yellow or yellowish-brown liquid, which becomes more viscous in time, occasionally possessing a slight fluorescence, and having a characteristic aromatic odour and a very persistent sharp and bitter taste (sp. gr. 0.960–0.996).

Copaiba should yield a clear mixture with an equal part of absolute alcohol, and also when mixed with an equal volume of petroleum ether; on mixing with two volumes of petroleum ether the resulting mixture should not be more than faintly cloudy (Gurjun balsam).

A mixture of three volumes of copaiba and one volume of ammonia should not be cloudy or milky (fatty oils), and should not gelatinise after standing for twenty-four hours (resin).

If 0.3–0.4 gram of copaiba is heated on the water-bath in a flat capsule no smell of turpentine should be perceptible; after evaporation of the volatile oil, and on cooling, a pale brittle resin should remain (fatty oils and paraffin), the weight of which should not be less than 45 per cent. of the amount of copaiba employed for this test.

If the whole of the volatile oil from about 25 grams of copaiba is removed by distillation with steam, and the oil dried with exsiccated sodium sulphate, the optical rotation in a tube of 10 cm. should be not less than $-7°$ (African balsam).

On dissolving 1 or 2 drops of the volatile oil in 3 c.c. of glacial acetic acid, mixed with 2 or 3 drops of a freshly prepared solution of sodium nitrite 1 : 100, and carefully layering the resulting mixture on to 2 c.c. of sulphuric acid, the acetic acid layer should not assume a violet coloration within half an hour (Gurjun balsam).

The acid value, determined in the same manner as for fatty oils, should be not less than 75, nor more than 85; the saponification value should not differ by more than 14, compared with the figure for the acid value.

Balsam of Tolu.

The balsam obtained from the wounded stem of *Myroxylon toluiferum*, H.B. and K., which has become entirely or partly solid by exposure to the air.

A yellow or reddish-brown, soft, or crystalline mass which softens when slightly warmed. The solid balsam can be reduced to a greyish-brown powder, with an aromatic odour and a slightly aromatic taste.

On heating 1 part of tolu balsam with 20 parts of chloroform or alcohol it should be completely soluble, the undissolved impurities should not exceed 3 per cent.

One gram of tolu balsam heated with 20 c.c. of carbon disulphide yields on evaporation a crystalline residue, which possesses a purely aromatic odour and taste, not in any way resembling those of turpentine or resin; on boiling this residue with 2 or 3 c.c. of ammonia it should yield a solution which even after standing for twelve hours is not transformed into a jelly (resin).

Acid value 110 to 160; saponification value 160 to 210.

The acid value is determined as follows: 10 c.c. of half-normal alcoholic potassium hydroxide solution is added to a solution of 1 gram of tolu balsam in 50 c.c. of alcohol and the mixture diluted with 200 c.c. of water; after adding 1 c.c. of phenolphthalein to the solution it is titrated with half-normal hydrochloric acid solution until decolorised.

The saponification value is ascertained by the following process: A solution of 1 gram of tolu balsam in 50 c.c. of alcohol, to which 20 c.c. of half-normal alcoholic potassium hydroxide solution has been added, is boiled for half an hour under a reflux condenser, then diluted with 200 c.c. of water, adding 1 c.c. of phenolphthalein solution, and titrating with half-normal hydrochloric acid until decolorised.

Tolu balsam should not yield more than 0.5 per cent. of ash.

Balsam of Peru.

A balsam obtained from *Myroxylon Pereiræ*, Klotzsch, by removing the bark of the trunk, and later alternately slightly scorching the exposed surfaces and making incisions.

A dark brown viscid liquid, transparent when viewed in thin layers; unctuous to the touch but not sticky, and not forming threads when poured out. It does not dry on exposure to the air. It possesses a characteristic aromatic odour, resembling that of vanilla; it leaves a sharp taste on the tongue, with a bitter after-taste (sp. gr. 1.145–1.180).

On warming on the water-bath balsam of Peru should not yield an odour of turpentine, copaiba, or storax, and after half an hour should not show a loss of more than 2.5 per cent.

One part of balsam of Peru mixed with 1 or even 2 parts of alcohol should yield a clear mixture; on mixing with over 3 parts of alcohol a cloudy mixture results, which shows an acid reaction.

One gram of balsam of Peru yields a clear mixture with a solution of 3 grams of chloral hydrate in 2 grams of water (fatty oils).

One part of carbon disulphide and 3 parts of balsam of Peru yield a clear mixture (artificial balsam).

If 5 drops of balsam of Peru are shaken up with 8 c.c. of petroleum ether in a test-tube the whole of the balsam should adhere to the walls of the tube as a sticky mass, and the petroleum ether should not contain any flaky particles. On separating the latter from the balsam and evaporation the residue should assume a yellow, but no green or blue, coloration on the addition of 1 drop of nitric acid (sp. gr. 1.4) (artificial balsam).

Acid value 56 to 80; saponification value not below 220.

Method of determining the acid value: A mixture of 1 gram of balsam of Peru in 100 c.c. of alcohol and 1 c.c. of phenolphthalein solution is titrated with half-normal alcoholic potassium hydroxide till a red coloration appears.

To determine the saponification value a mixture of 1 gram of balsam of Peru in 20 c.c. of alcohol and 50 c.c. of half-normal alcoholic potassium hydroxide is boiled for half an hour under a reflux condenser, thereupon 300 c.c. of water are added, and 1 c.c. of phenolphthalein solution; titrate with half-normal hydrochloric acid until the red colour is discharged.

Balsam of Peru should contain at least 55 and not more than 80 per cent. of cinnamein. To determine the cinnamein content, 1 gram of balsam of Peru is mixed with 30 c.c. of ether in a separator, a mixture of 3 c.c. of sodium hydroxide solution, and 17 c.c. of water is added, and the whole well shaken for half an hour. When the layers have separated the alkaline layer is poured off, and the ethereal layer is shaken up with 1 c.c. of water, which is poured away. The ethereal layer is then removed, the separator washed with 5 c.c. of ether, and the latter added to the ethereal solution, which is now evaporated at ordinary temperature, and the residue allowed to stand in an exsiccator for twelve hours. The cinnamein thus obtained is an oily liquid with an aromatic odour, possessing a saponification value of not less than 235, determined in the same manner as adopted for fatty oils. If the liquid obtained in the determination of the saponification value of the cinnamein be evaporated, and a portion of the residue warmed with 5 c.c. of potassium permanganate solution (1 : 20), benzaldehyde is formed.

Things Worth Knowing.

By "Hugo."

A competent worker never brags about his capabilities.

Never make a noise when in a hurry: calm precision is the ideal then.

A weak solution of caustic alkali is the best solvent for vegetable incrustations.

You should never allow yourself to become overstocked with effervescent goods.

Don't renew your stock of bad-selling patents: make room for new lines and keep your money at work.

If a man rushes in for something, and shouts, "I'm in a hurry," don't snub him: courtesy is the wiser course.

Never fail to keep plenty of change on hand: nothing so aggravates a customer as to make a purchase and wait unduly for change.

When goods such as foods, serums, and films bear an expiry date, don't forget to sell within the date or have them exchanged at once.

Proprietary Medicines Bill.

The Committee stage of the Proprietary Medicines Bill took place in the House of Lords on August 6. When the motion was put by Viscount Astor, Lord Bledisloe said that he was unavoidably absent during the second reading debate, and as he was instrumental in getting the Select Committee appointed, upon whose report the Bill is founded, and as he sat for nearly three years on that Committee, considering the problem which this Bill is designed to meet, he hoped there will be no serious attempt to whittle down the admittedly drastic provisions of this important Bill. Probably never had such a tissue of fraud and falsehood been disclosed to any Parliamentary Committee of either House as was disclosed to that Select Committee. Nor, probably, had there ever been told such a sad tale of human misery, mortality, and breakdown of health, following the deception of ignorant and credulous persons, particularly those who belong to those classes represented by domestic servants and shop assistants. This deception was largely practised through the medium of advertisements appearing in the less reputable newspapers. He emphasised the "less reputable newspapers," because he was bound to admit that, through the medium of Viscount Burnham, the particular class of newspapers which he and Lord Riddell represent in the House were to a great extent exculpated in the course of the evidence given to the Committee, and if ever there was a good champion of any interest who sat upon a Parliamentary Committee and did his best to secure that the reasonable interests of that class should be safeguarded, that person was the noble Viscount. In no civilised country in the world was there less protection afforded against the class of imposition which this Bill deals with than in the United Kingdom. Even in our own Colonies and Dependencies there was far more effective protection for the credulous public against this kind of deception and fraud. He hoped their lordships would welcome almost every provision in this Bill, and especially the provision which deals with those particularly noxious types of attempted cure—namely, the cure of incurable diseases and attempts to bring about abortion in women, by preparations all of which are poisonous and which must in the course of killing the fœtus, or child, either kill the mother or create permanent disablement or disease.

Earl Russell said that since the second reading he had refreshed his memory of the report of the Committee, and he called attention to the recommendations which are not embodied in the Bill. He also thought that the fees charged for registration should be named in the Bill.

Viscount Astor said that certain recommendations have not been included in the Bill because they are matters not affecting the Ministry of Health. These are suggested amendments of the Stamp Act, upon which legislation will probably follow if the Bill becomes law, and amendments of the Indecent Advertisements Act, and of the Merchandise Marks Act. The regulations as to fees require to be submitted to Parliament. With the changing value of money it is not thought advisable to put in the Bill a definite fee.

Clause 1.

Lord Shandon, who had on the paper an amendment to sub-clause (1), after "sale," where that word first occurs, to insert "sell or offer for sale" (*C. & D.*, August 7, p. 56), said the clause is constructed so as to make it penal for any person to prepare for sale, or to manufacture for sale, any proprietary medicine, unless it is composed of the ingredients and in the proportions specified in the register. That, of course, only affects the manufacturer. Sometimes the manufacturer may be himself a very small vendor of physic, who prepares and sells retail, but for the most part the mere retailer is not intended, as the clause stands, to be affected. It does appear to be drastic to suggest in the amendment that the retailer should be made liable when perhaps he is innocent of any wrongdoing, while the manufacturer, from whom he buys these sometimes worthless and sometimes harmful preparations, may escape. "But the provision as it stands, it seems to me," continued the speaker, will not enable you to get at the manufacturer. A man starts a factory and puts all these things into the pot. How are you to find out unless you have power of entry, whether he is doing it rightly or wrongly?" He did not find anything in the Bill which, either directly or by incorporation of other statutes, would enable any person authorised by the Ministry of Health to enter and inspect. He suggested that there should be power of entry or express provision that when there is an analysis of the contents of a package that analysis should be evidence against the manufacturer of the offence contained in sub-clause (1).

Viscount Astor said the amendment was an impossible one. It is not desired to make it impossible or unreasonably difficult for the retailer to sell these various proprietary remedies. The public is protected by sub-clause (2).

The amendment was, by leave, withdrawn.

Objections to Synonyms.

Lord Bledisloe moved to insert in sub-clause (1) (*b*) after "Act," the words "and under one designation only." The object, he explained, was to prevent the extreme inconvenience and, in some cases, personal harm, resulting from a large number of trade designations being given to a single drug or preparation As a case in point, he mentioned aspirin, "a remedy with which I dare say many of your lordships are familiar." The proper chemical name of this drug is acetylsalicylic acid. But it is known in the trade under no fewer than five different names. Some of them are aspirin, saletin, salacetin, and xaxa. Another very serious case referred to in the report of the Committee is that of acetanilide, which is referred to in another part of the report as a most dangerous drug that ought not to be sold at all. This is, in fact, sold under a variety of names, some of which are antikamnia, ammonol, antitoxine, phenalgin, and phenolphthalein. Some of it comes from the United States, and that which comes from America is wrongly called "antikamnia." We attribute that name to a quite different English drug. Some persons who may be aware that a certain drug does not agree with them may find themselves purchasing from a retail chemist exactly the same drug under a totally different designation. Another amendment he suggested was that in the case of a synthetic drug sold as a proprietary medicine, the chemical name should appear on the label and in every advertisement relating thereto, just as is invariably done in the case of seeds, where the botanical as well as the popular name is given. He suggested that the case may be partly met by adopting a somewhat similar principle, and insisting on every packet or bottle containing the chemical name and the full trade designation, whatever that may be.

Viscount Astor said he was prepared to accept the second amendment, but not the first, as owners of certain proprietary medicines may have spent a great deal of money in establishing goodwill over a long period of time, and it was not desirable to prejudice people who have established a goodwill.

The amendment was, by leave, withdrawn.

Preventing Expropriation.

Lord Emmott moved the amendment to sub-clause (1) (*c*), which was printed in the *C. & D.*, August 7, p. 60. It is, he explained, anticipatory of the one he would move to clause 5 (*e*) (see *C. & D.*, August 7, p. 60), and he dealt with the latter rather than with the narrower question raised by the first amendment. He said the preparation of many of these proprietary medicines is, of course, a secret. As Viscount Astor has reminded us, a goodwill has been built up in reference to them—a goodwill or a "bad will," according as the article is a useful article or a bad article. A great deal of this trade is an export trade; yet if clause 1 passes in its present form nobody will be allowed to manufacture for export in accordance with the law of the country to which

the commodity manufactured is to be exported, if it contravenes the provisions of this Bill. He did not know what is intended concerning the export trade in regard to this matter. It is a very important matter. It would seem to him, with the little knowledge he had, a rather monstrous thing to interfere with a legitimate export trade in the way suggested in this Bill. He found himself in a difficulty in being intensely busy at the present moment and he had no personal interest in the Bill, but the case put to him by the manufacturers seems to demand careful investigation at their lordships' hands. When a body of manufacturers appeal to him, as the manufacturers of some of these articles have done—not at all in a spirit of opposition to the Bill as a whole, which contains very many useful provisions—approving much of the Bill, but honestly believing that a trade which they consider as legitimate is going to be ruined by some of the provisions of this Bill, he felt bound to state, as best he could, the points that the manufacturers urge against the provisions which are now contained in the Bill. He was all the more disturbed in regard to this matter because of the statements made by Viscount Astor, in charge of the Bill, in reference to the staff that would be required for the working of the Bill. The noble Viscount let them suppose that only a registrar would be required. On the one hand, we are told that a great trade is being conducted in this country with many maleficent effects, which requires careful control, which is producing articles the formulas for all of which require to be examined and the composition of many of which requires to be checked, and yet, on the other hand, we are told that only a registrar will be required as a new permanent official to deal with the whole question. Obviously, if there is a great evil, it must be a large and expensive matter to control it. The idea that only a registrar is needed for the purpose did not carry any conviction to his mind. A large staff must be required. Either that staff is in existence at the present moment or it is not in existence. If it is in existence, it must be kicking its heels at the Ministry of Health at the present time doing nothing—a supposition which is entirely absurd. If it is not in existence, it has to be created, and it is going to be costly. He had no particular confidence in the financial estimates of the Minister of Health, and he did not think he ought to have instructed the noble Viscount to make a statement of this kind, carrying no conviction. If it did carry conviction to anybody, he feared it could only do so by misleading.

Formula Deposit.

The real controversy that he wished to bring before the House, the controversy on formula deposit, is really one between the medical profession and the manufacturers. Many doctors want a complete disclosure. The manufacturers say that some members of the medical profession are out to destroy their trade, with the effect, incidentally, of increasing their own remuneration. He was not in the least concerned in that quarrel; all he desired was to see justice done and the best arrangements possible made for the public. In regard to this particular amendment the voting in the Select Committee was six for the particular proposal in the Bill and three against. Broadly speaking, he believed no such provision is required in any English-speaking country at the present time. He fully admitted that many English-speaking countries (our own Dominions among the number) are greatly ahead of us in regard to legislation on this matter. But this particular provision is not required, broadly speaking, in any English-speaking country. It has been debated in Canada, in Queensland, and in Western Australia also, and it was defeated there. Canada is the most recent example. The Canadian Bill requiring formula deposit was withdrawn last year by the Government, and the Act now requires a statement on oath that preparations do, or do not, contain certain drugs which are mentioned in the schedule to the Act. In effect his proposal is the same as the Canadian legislation at the present time. He mentioned incidentally, as a somewhat analogous case, that in the Profiteering Act there is a section which says:

> Nothing in this Act or the principal Act shall require particulars of any secret process or preparation to be disclosed.

The next point he wanted to bring forward was that he very much doubted, according to the information of those who have advised him, whether any protection will be afforded by formula deposit. How many of us know the quality of one-tenth or one-hundredth of the drugs used? Indeed, there are many drugs of which he did not even know the name. How many of the people whom we are trying to save from the evil effects of obnoxious drugs and obnoxious medicines would be deterred by a knowledge that the medicine which they took had in it certain ingredients with long Latin or Greek names, of the meaning of which, and the qualities of which, they have not the faintest conception? Many of these proprietary medicines are, after all, in the nature of very harmless soothing syrup. Their virtue is somewhat analogous to that of the present Government; it is a harmless Coalition exercising a soothing effect upon a considerable portion of the public. The real protection in regard to this matter is in paragraph (*f*) of clause 5, which enables the Minister, if he thinks fit, to direct that the name and quantity of any poisonous or dangerous drug—he would propose an amendment later on to alter those words to "article mentioned in the schedule to the Poisons and Pharmacy Act, 1908"—forming an ingredient of any registered medicine shall be stated in the prescribed manner on all vessels or other packages in which the medicine is sold or offered for sale. There is an immense list of these drugs now in the schedule. He did not know how many hundreds, but hundreds and hundreds of them, and they are being constantly added to, quite properly and rightly, by the Privy Council. Veronal, for instance, a drug of which we have all heard, has quite recently been added to this list. It is admitted, of course, that a great many vegetable compositions are very difficult to detect by chemical analysis. If the Government proposal is to be defended, it clearly must be on the score that harmful drugs are being used, or processes are being used, which make medicines harmful which would not be covered by the drugs which are in the schedule of the Poisons and Pharmacy Act. Clearly the real remedy is to add to the schedule and put the harmful drugs upon it. There is a further protection at the present time in the prohibition of all advertising as regards abortefacients and as regards the cure of venereal disease. He believed the principle adopted at the War Trade Department is the right one, *mutatis mutandis*. In that case was required diclosure of articles which were prohibited from export at the time, if they entered into the composition of the compound articles that were sent out. In this case it seems to him that there should be a disclosure of the use of any drugs in the schedule of the Poisons and Pharmacy Act. He did not think that disclosure to a large number of Government officials (and he maintained that there must be a large staff who will know) is at all desirable, if it can be avoided. The registrar cannot possibly deal with tens of thousands of registered proprietary medicines himself, and he asked their lordships seriously to look at the temptation, first of all, to sell knowledge—a direct method of corruption—and, secondly, the much more subtle temptation to a manufacturer to offer a high salary to a man who is soaked in the secrets of this new Department, and who could give him valuable information, if he could be induced to enter his service.

Disclosure a Vital Question.

Viscount Astor said the amendment would take out one of the important proposals in the Bill. It is vitally necessary that the Minister of Health should know what these remedies contain. In Western Australia the owner not only has to disclose the formula in secret to the Government Department; he has to put the ingredients on the label so that every man that buys a bottle of the remedy knows exactly what it is he is buying. He ha

too high an opinion of the Civil Service and officials to believe that they would be tempted to sell the secrets so acquired. According to the evidence before the Select Committee doctors stood to gain by the public buying a large number of these remedies, as diseases got worse by delay. The Bill is not intended to touch the export trade at all. Medicines for sale abroad can be consigned to an agent abroad, and no sale within the meaning of clause 1 need take place at all; no property need pass until the goods have left this country. If, he said, the noble lord was not satisfied with that explanation and would care to put down an amendment, he would be very pleased to consider it sympathetically on the report stage.

Dealing with the main point of the amendment, there are two big proposals in the Bill. First of all, clause 2 prohibits the advertising of remedies purporting to cure certain diseases. The Bill is also designed to prevent the sale of remedies which may be injurious and prejudicial to the health of the purchaser. There are a large number of substances, not poisons, which, if taken in excessive doses or given to children, or taken without proper warning against excessive doses, seriously prejudice the health of those who take them. Antipyrine, antifebrin, the bromides, sulphate of zinc, and various other ingredients, if taken by the man in the street without due warning against excessive dosage, seriously prejudice his health. They are not technically poisons, but there are cases in which they act prejudicially. He had before him a case in which two children lost their lives by taking a patent medicine containing an ingredient which is not a poison. The case was fought out before the Courts in 1905, and the Court reported quite specifically that these two children had lost their lives because they had taken this particular proprietary remedy containing an ingredient which ought not to have been given to children in the doses in which it was given to them. It is, therefore, essential that the Minister should know what are the ingredients in these medicines. He had put down an amendment that would make it impossible for a trade rival to try to ascertain the ingredients of any proprietary remedy by bringing a trumped-up case against the owner of the remedy. The amendment restricts proceedings against the owner of a medicine to the Minister of Health. He had also an amendment to clause 4 which will give further protection to the trade, and if the noble lord was able to suggest any further amendment which will give reasonable protection to the owners of proprietary medicines he would willingly and gladly consider it. But it is absolutely vital that the ingredients which go to make up these remedies should be disclosed in absolute confidence to the Government.

Absence of Precedents.

Lord Southwark and the Marquess of Salisbury protested against measures such as this being introduced late in the session. The Marquess was not, he said, very satisfied with the precedent of Western Australia. It may be an important colony, but it is not one of the most important colonies in the British Dominions, and he was not much impressed by that precedent. If Viscount Astor can persuade Lord Emmott that he is correct there is no reason in the world why the matter should not proceed, but if there is a serious difference of opinion upon an important amendment of this kind the Government have only one course to pursue, and that is to make some modifications. It was perfectly clear that if their lordships went to a division the Government would be compelled to do so.

Lord Bledisloe said the amendment would strike a blow at the Bill itself. He said that France, Italy, Germany, Austria, Hungary, and other European countries took steps some years ago to prevent the perpetuation of this secrecy in the preparation of proprietary medicines.

Destroying an Industry.

Lord Askwith said the great industry which is engaged upon medicines of this nature, some few of which may be of a harmful kind, rely upon their having formulas which are not known to the general public. The public have not asked for these formulas—they would not understand them—but it is now asked that these should be deposited with the Government. It is suggested that the Government have not provided sufficient safeguards in order to prevent these formulas leaking out. It goes to the very root of this great industry that secrecy should be maintained with regard to these preparations, on which a huge trade may be built up. If there is to be risk of such a huge trade being overthrown by some one man giving away the formula, or by its leaking out, or by its being betrayed through breach of faith, or anything of that kind, then this great industry will not be built up. The industry in many respects is one which has been of incalculable value to the public at large; many doctors make use in their prescriptions of the results which are obtained from it. Quack medicines have been really the pioneers of other medicines, and have often led to scientific discoveries; but all this would go, and this great industry would be overthrown, if there was not this secrecy which Lord Bledisloe has so long attacked as being unsatisfactory. If the Government want to know what these medicines are made of, in ninety-five cases out of a hundred they can find it out by analysis. Lord Emmott has suggested that the practice which, during the war, was so satisfactory—namely, that poisons should be disclosed—should be followed, and he has been asked whether on report he can bring up a sufficient protection which the Government could accept. To my mind it is for the Government themselves to say how they are going to prevent this industry being overthrown by unfair disclosures, and it is for them, in the interests of the industry, to bring forward their own proposals.

A Medical View.

Lord Dawson contended that the mere stating that a thing is a poison is not only inadequate but is entirely unsuitable. Many remedies which make for good in proper hands make for harm in unskilful hands, and the practice which has arisen of adding to the scheduled poisons in the Poisons Act is a wholly undesirable practice. That schedule contains many drugs, unfortunately, which in the strict sense of the word are not poisons at all, and it produces an undesirable prejudice in the public mind to overstate the number of poisons. The fact is that knowledge tends to make the composition of drugs more and more precise, and as their composition becomes more precise their action becomes more accurately known, and as their action becomes more accurately known, they become powerful for good and for evil—powerful for good in the hands of people who know, and powerful for evil in the hands of people who do not know. He suggested that one criterion is not whether a particular drug is a poison or not, but whether a particular combination of drugs does, by having this particular effect, do such harm to the public as to require that the public should be protected. He added that as a medical man he was not against proprietary medicines as such.

The Rights of the Public.

Lord Riddell said it would be a monstrous thing to deprive persons who suffer from pernicious patent medicines of their right to know the ingredients of the medicine which has poisoned them, and to deprive them of the evidence to which obviously they are entitled for the purpose of establishing a case in the Courts. The amendments which Viscount Astor proposes interfere with the ordinary provisions as to evidence. He proposes to set aside the provisions of Section 14 of the Evidence Act of 1851, and to make the particulars which are furnished secret. He took it that the object of this Bill is to protect persons from fraudulent patent-medicine vendors. The Bill is dealing with a big trade involving millions of capital; and the Bill deals with a favourite recreation of a large section of the public, because a great many people find it a recreation to take patent medicines. The noble Viscount said that fifteen years ago it was proved that two children had been killed by

patent medicines. We know, of course, that every day people are being poisoned by doctors and otherwise, and he did not for a moment imagine that patent-medicine vendors, in the matter of remedies, have any monopoly of poisoning.

Disclosure no Safeguard to Public.

Lord Emmott said Lord Dawson's reasons for the Bill fail as a practical matter. Medicine is very far from an exact science, and will probably remain so for many a long year to come. Lord Dawson, Lord Bledisloe, and Viscount Astor have not shown that the provisions of the Bill are going to safeguard the public against the evil that they deplore. Supposing this disclosure is made. Supposing some addition is made to the labels as to the quantity to be used, and so on; who is going to benefit by them? Are the people who are now taking these proprietary medicines, which for a time stave off the terrible effects of malignant disease, going to stop taking them on that account? Are they going any sooner to a medical practitioner on that account? He did not think so for a moment. He wished he could think they were. He believed just the same practical good effects would be obtained from what he proposed as the promoters are going to get under this Bill. He wished to give the manufacturers time to confer with the Government Department and thresh this matter out.

Viscount Astor said they were agreed that nothing should be done to injure the legitimate interests of a trade which has been built up in connection with these remedies. The Ministry of Health could get in touch with the trades concerned before the Bill gets to the House of Commons, but it is vital that the ingredients which go to make up these remedies should be disclosed confidentially to the Government.

The amendment was, by leave, withdrawn.

Viscount Astor moved to insert at the end of sub-clause (3) words providing that proceedings should not be brought against a manufacturer for compounding otherwise than according to the formula, except by the Minister of Health.

This was agreed to.

Clause 2.

Dealing next with clause 2, Lord Askwith moved his amendment (*C. & D.*, August 7, p. 60) dealing with the sale of appliances for deafness or rupture, the effect of which would be to remove deafness and rupture from the schedule of the Bill while still making it an offence to sell medicines or appliances stated "to cure" deafness or rupture.

The amendment was agreed to.

Lord Askwith next moved to omit sub-clause (1) of clause 2, which would give the Minister of Health power to add to the diseases in the schedule.

Viscount Astor agreed to insert words to ensure that the regulations were submitted to both Houses of Parliament for approval.

Lord Riddell said the clause as drafted would have the effect of preventing the publication in the medical papers of advertisements which he thought it is conceded properly appear there, and he asked Viscount Astor to consider that point with a view to adding words to protect the medical Press as is customary on such occasions. Diabetes is one of the diseases mentioned in the schedule. He did not know whether it is intended to apply the clause to advertisements of diabetic foods, which he imagined would be quite proper things to advertise.

Lord Bledisloe said it was made perfectly clear to the Select Committee that some organs of the medical Press were by no means careful as to the sort of advertisements they admitted to their pages.

The amendment was agreed to.

Lord Bledisloe moved further amendments to ensure that a person who "prints" as well as publishes advertisements such as are referred to will be liable for so doing.

Grandmotherly Legislation.

On consideration of clause 3, Lord Emmott moved to omit paragraph (*a*), which prohibits the enclosure with a proprietary medicine of advertisements of another medicine. He said the Government have not realised what this paragraph means. It means that two proprietary medicines could not be sent in one parcel though they were legitimately ordered and paid for. It further means that if a cough mixture were being sent a man would be debarred from recommending a gargle. This is really going too far in grandmotherly legislation.

Viscount Astor said the clause was intended to prevent vendors of proprietary medicines who get in touch with people from recommending a second or a third cure.

The Marquess of Salisbury said it seemed to him somewhat difficult to defend this particular provision. The whole spirit of the Bill is that people should not be misled by a patent medicine which contains dangerous drugs. They must look upon their fellow-subjects as being reasonable men; they must not think of the people of this country as being idiots. That is not the least what they are like. People will read these advertisements and no doubt will accept them at their proper worth. If it was thought that the advertisements contained something objectionable he could understand the provision more, but if it suggested that people might like to buy some other proprietary medicine surely they are the best judges of what they ought to do.

The amendment was agreed to.

Grossly Exaggerated Claims.

Lord Bledisloe withdrew a paragraph to be inserted after (*a*) in clause 3 prohibiting claims for proprietary medicines "grossly in excess" of what is justified by the ingredients. He quoted an advertisement of "Mer-Syren" in support of his amendment.

Lord Emmott said the amendment goes too far, and Lord Shandon said there is scarcely one of those things which would not come within those words, because if we take the analyses made by the British Medical Association they are no good for anything. And how is it to be determined?

Lord Riddell pointed out that the words "grossly in excess" were entirely inappropriate and would lead to an enormous amount of litigation.

The amendment was, by leave, withdrawn.

A drafting amendment by Viscount Astor was agreed to, and also a paragraph prohibiting offers to return money if the "cure, relief, or prevention" does not take place. The object of this was explained to be to prevent the owner of the medicine from getting in communication with the person who took the medicine.

Use of Fictitious Names.

Lord Bledisloe then moved an amendment to prevent the use of the names of fictitious persons in connection with proprietary medicines. He said the serious case is that in which the name of a doctor is used, although the doctor does not in fact exist. They had heard of Dr. Williams' Pink Pills for Pale People. He did not say that there was no Doctor Williams, but certainly in the case of Dr. Roulet's specific for gonorrhœa it was proved that no such person as Dr. Roulet existed. And there were other preparations in connection with which fictitious names were used.

Viscount Astor said the Government could not accept the amendment. It did not really matter to the public whether Mother Siegel existed, or whether Doctor Williams did or did not exist, provided that the remedy advertised does not injure the public health.

The amendment was, by leave, withdrawn.

Lord Emmott moved in paragraph (*d*) before "statement" to insert the word "false."

Viscount Astor said they did not want to have remedies advertised with the names of doctors attached to them, who have worthless degrees. It is only fair to the public, if a doctor's name is attached to a remedy, that his degree, qualifications, and address should be stated. There are cases which he could mention in which almost bogus doctors have been referred to in connection with a particular remedy. It is probably inadvisable to encourage doctors to give these recommendations or certificates. It was found by the Select Committee that

a certain number of doctors gave the certificates in return for a considerable number of free samples of the remedies.

The amendment was, by leave, withdrawn.

Clause 4.

Lord Askwith moved an amendment to sub-clause (3) which would compel the registrar to assign a number to a proprietary medicine within thirty days.

The amendment was withdrawn on a promise by the Government to provide suitable words.

The following sub-clauses were inserted at the end of sub-clause (3) on the motion of Viscount Astor:

(3) The register of proprietary medicines shall be kept in two separate books, in one of which (in this Act referred to as "the formulæ book") there shall be contained the particulars with respect to the ingredients and composition of the medicines, and in the other of which there shall be contained all the other matters which are required to be registered in relation to proprietary medicines.

(4) Notwithstanding anything in section fourteen of the Evidence Act, 1851, or any other Act, the registrar shall not furnish any copy of or extract from any entry in the formulæ book relating to any medicine to any person other than the registered owner of the medicine, and the registrar shall not, except with the consent of the registered owner of a medicine, produce or otherwise disclose the entry in the formulæ book relating to that medicine or any proceedings in any court, other than proceedings against a person for manufacturing or preparing for sale a proprietary medicine alleged to be compounded of ingredients or in proportions other than those specified in the register or proceedings on an appeal against the removal of a medicine from the register.

(5) A certificate purporting to be a certificate under the hand of the registrar stating that any person or any medicine or appliance is, or was at any date, or is not, or was not at any date, duly registered under this Act, or stating that any other particulars are, or were at any date, or are not, or were not at any date, contained in the register with respect to any person, medicine, or appliance registered therein, shall be conclusive evidence in all courts of law of the facts stated in the certificate.

Clause 5.

Viscount Astor moved an addition to paragraph (*a*) of sub-clause (1) which he said would enable the Ministry of Health to maintain the secrecy of the formulas, and yet to publish for information a list of the owners of proprietary medicines.

This was agreed to.

Synthetic Remedies.

Lord Bledisloe moved to insert the following after paragraph (*a*) of sub-clause (2):

(*b*) requiring that in the case of any synthetic drug sold as a proprietary medicine the chemical name thereof shall appear on the label and in every advertisement relating thereto.

He said this is to meet the cases of remedies sold under a great variety of names, although in fact identical. It is some little protection, particularly to the retail chemists who sell these preparations.

The following conversation took place:

The Marquess of Salisbury: What is a synthetic drug?

Lord Bledisloe: I take a synthetic drug to be a drug which is composed of a variety of natural products. I rather hesitate to give a definition in the presence of Lord Dawson.

Lord Dawson: I did not quite catch what that was.

Lord Bledisloe: The question is what is the definition of a synthetic drug? I take it a synthetic drug is a drug which is not a natural product but, by the mixture of certain natural ingredients, it becomes a drug.

Lord Emmott: Might I ask what a "chemical name" is?

Lord Riddell: Would not a proper course be to provide us with a definition of the term "synthetic drug" so that it would go in the Bill?

The Marquess of Salisbury: We have got a very great authority here. Perhaps he will be kind enough to give us a definition.

Lord Dawson: It is rather awkward to give a definition right off, but, firstly, a synthetic drug is a drug which consists of one particular substance, and which is built up, molecule by molecule, from simpler substances so as to form one substance of varying complexity. For instance, if I may give an example, let us take aniline. It is a synthetic drug because it has a molecule made up partly of a nitrogen molecule and partly of a molecule derived from benzine. You may then go on building it up, adding or taking off molecules until you get a drug of varying complexity. That is the way 606 was built up. The point is it is a synthesis; it is a building up of one substance by adding molecule on molecule.

After this exposition the amendment was agreed to.

Lord Askwith moved, in sub-clause (2) (*f*), to leave out "poisonous or dangerous drug" and insert "article mentioned in the schedule to the Poisons and Pharmacy Act, 1908." He said this is a matter of the Minister being able to direct the name and quantity of any poisonous or dangerous drug to be stated. It seems a very wide power, and rather an uncertain power as regards its exercise, for the Minister to have. The Schedule of Poisons contains a very large number of articles. It is continually being added to, and could be added to supposing there was anything discovered which the Minister wished to add.

Viscount Astor said that, in view of the decision on a similar point raised on Lord Emmott's amendment, this should not be moved.

The amendment was, by leave, withdrawn.

Lord Askwith then moved an amendment to sub-clause (2) (*g*) in regard to the quantity of alcohol which may be used in medicines as a preservative. Amended, so as still to give the Minister of Health power to determine the amount, this was accepted.

Clause 6.

Viscount Astor moved two amendments, the object of which was stated to be to give the registered owner an opportunity of stating his case in writing before a medicine registered by him is removed from the register.

Lord Askwith said that so far as it goes the amendment seems to satisfy a good deal of the feeling that would have arisen if a man's name were removed from the register, and possibly his whole business stopped, before he had any chance of saying anything in his own favour. But this amendment, so far as it goes, leaves the matter with the Minister, and does not give a man who may have a very big business the right of appeal to the High Court from the Minister.

Lord Dawson propounded his view that the Minister of Health should be perfectly free to withhold his consent to registration without any odium of any kind attaching to the owner of the medicine. It might even be done confidentially. He may be told by an official, before he advertises it or puts it on the market, that it is an undesirable remedy in the public interest, although the owner may have put it forward in perfect good faith.

Lord Riddell protested against giving such dangerous powers to any Ministry. The Courts are the proper place in which these matters should be investigated. The Minister of Health should not have it in his power to ruin a man without any appeal and probably by secret action. All these Government Departments are most anxious to secure powers of this sort, and of a most drastic character, and they are very fond of acting in secret. They are always anxious that they should not be subject to the control of the Courts.

Viscount Astor said if by any chance the right of appeal was not in the Bill he would be prepared to insert words giving that power. It is proposed to give the Minister the right of withdrawing a remedy or taking a person off the register if, in his opinion, either the remedy is injurious to health or the recommendations sold with the remedy are likely to be injurious. That is to say, it is desired to see that the public receive due and adequate warning which will prevent them taking overdoses of any particular remedy.

The amendment was agreed to, as was another providing for twenty-one days' notice of intention to remove a remedy from the registered list.

The penalties in clause 8 were increased.

Lord Askwith's amendment to the schedule by which the words "deafness" and "rupture" were omitted was agreed to.

New Clauses.

The following amendment is to be moved on report by Lord Bledisloe:

After clause 8 insert the following:

9. The Minister may institute any proceedings to enforce compliance with the law relating to the sale and advertisement of any proprietary medicine or proprietary appliance.

10. For the purposes of the Merchandise Marks Acts a statement, design, or device regarding any proprietary medicine or the drugs and ingredients contained therein or of the curative or therapeutic effect thereof which is false or misleading in any particular shall for the purposes of those Acts be regarded as a false trade description.

Press Opinions.

We hope the Ministry of Health will have the courage to carry through the Bill in the face of any trade opposition, direct or indirect, that may be forthcoming, because we believe the measure will have the effect of checking and finally stamping out a grave public evil that has been allowed too long to flourish openly. The natural antidote to the patent medicine is the panel doctor; and no member of the public, however poverty-stricken, can, in these days, complain that in the absence of the many decorative but questionable fancy medicines of the chemist's shop he will be deprived of a prompt and inexpensive means of medical assistance.—"The Hospital."

Upon the Bill now before Parliament two questions naturally arise. One is: Will it suceeed in protecting the public against the vast and cruel frauds of the vendor of quack medicines and appliances? The other is: Will Parliament have the courage and public spirit to pass it into law, without amendments which would destroy its effectiveness? The Bill certainly seems to embody a large part of the recommendations of the Select Committee. . . . The Bill may not abolish all the evils of this nefarious trade, but we think the medical profession will regard it as a substantial measure of reform, and one that should be supported. It strikes, of course, at vested interests, and is certain to be opposed, both in public and behind the scenes. The leading opponents will be the makers of secret remedies, who take millions of pounds each year out of the pockets of the public, and that section of the Press which prints their advertisements.—"The British Medical Journal."

Public opinion is, however, unanimous in support of any measure designed to prevent the sale of fraudulent medicines and of drugs or appliances intended for immoral purposes. All appear to be fully aware of the undesirability of "cure-all" claims. Yet considerable protest has been raised against the Proprietary Medicines Bill in certain journals, wherein it is variously described as an insincere measure designed for the glorification of the Ministry of Health, as a further invasion of public liberty under the pretext of coddling, and as a serious threat to the comfort and convenience of a large section of the public. It is even suggested that the victims of incurable cancer will be deprived by the Bill of the remedies required to soothe and alleviate their sufferings; that, in fine, it is not the public interest but rather the sectional interest of the medical profession which is at the bottom of the changes proposed. The history of the Bill easily disposes of it as a piece of sectional or self-interested legislation.—"The Lancet."

Appended is a schedule of these diseases. It includes twelve, among which are cancer, consumption, and locomotor ataxy. All the prohibited diseases in the list are, however, those which the medical profession at present regard as incurable. Such being the case, one might have thought that a sufferer from any one of them would be justified in resorting to anything that afforded him a last desperate chance of escape from his malady, and that the inventor of that cure might be permitted to supply him. But, and although there are hundreds of cases where a patient has obtained at least relief from the humble patent medicine after a qualified medical practitioner has failed to afford it, the Bill definitely closes this avenue. . . . If a qualified doctor tells one that one is incurable, incurable one must be content to remain. Moreover, the Minister of Health is to have power to add to this list of "prohibited diseases" as he thinks fit. This is asking the public to deliver itself, hand and foot and internal organs, into the hands of the medical hierarchy sheltering behind the Minister of Health. There is no reason to suppose that the hierarchy will stop at efforts to prevent the sale of pernicious patent medicines. There is no lack of indication that this measure is designed at least as much to "protect" the "qualified doctor's" practice as to save the public from themselves, and we trust its seemingly innocent provisions will be very carefully scrutinised.—"Sussex Daily News."

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Dentists Act Amendment Bill.

Dr. Addison stated, on August 9, that this Bill would be introduced this week.

Dangerous Drugs Bill.

This measure has been passed by the House of Lords during the week. Drafting amendments were made in clauses 12 and 13.

Royal Assent.

Among the measures which received the Royal Assent on August 4 were the Finance Act 1920 and the Veterinary Surgeons Act (1881) Amendment Act 1920.

British Empire Exhibition.

The House of Commons, on August 6, authorised the payment of a sum not exceeding 100,000*l.* to the guarantee fund of the British Empire Exhibition.

Profiteering Committees.

Up to July 31, 3,432*l.* 3*s.* 4*d.* had been expended on the travelling expenses of the members of the Central Committee and its sub-committees and of the 102 Appeal Tribunals established throughout the United Kingdom.

Lead-poisoning Prevention.

The Women and Young Persons (Employment in Lead Processes) Bill, which is to make provision for the better protection of women and young persons against lead-poisoning, was presented by Sir John Baird in the House of Commons on August 10.

Census Bill.

The second reading of the Census Bill took place in the House of Commons on August 4. This Bill gives power to take a census of the population every ten years without the necessity of introducing a fresh Bill each time. A census may also be taken at shorter intervals if thought desirable. The cost of the next census, which is to be taken on April 30, 1921, is to be 500,000*l.*

Seeds Bill.

This Bill was read a second time in the House of Commons on August 9. It seeks to make permanent an important change which took place during the war, under the Defence of the Realm Act Regulations, and which introduced what was of great advantage from the agricultural point of view. Under those regulations a seed-testing station was set up, and regulations were made compelling the sowers of agricultural seeds to disclose the varieties of the seeds and their purity and percentage of germination. The third reading was on August 11.

Fertilisers (Temporary Control of Export) Bill.

This Bill was read a second time in the House of Commons on August 9. The Parliamentary Secretary to the Ministry of Agriculture said the Bill is to prevent a large exportation of necessary fertilisers taking place. Inasmuch as the price of sulphate of ammonia agreed between the Government and the trade is 17*l.* 10*s.* for the home market, and on export something like 40*l.* or 50*l.* can be obtained, it is quite clear that unless the export is prohibited or regulated, practically the whole of the amount in this country would be exported, or else the price here would go up to a very high figure.

Birth.

Scott.—At 37 Chatsworth Road, Bournemouth, on July 22, the wife of S. Lamplough Scott, chemist and druggist (South Coast representative of British Colloids, Ltd.), of a daughter.

Marriages.

Evans — Richards.—At Llansaintffraid Church, Llanon, recently, Joshua W. Evans, chemist and druggist, Golden Mortar, Llandyssul, to Miss Elizabeth Deborah Richards, Llanon.

Newbery—Longstaff.—At St. John's Church, Blackheath, on August 4, by the Rev. L. A. McClintock Newbery, M.A., Vicar of Christ Church, Winchester (father of the bridegroom), assisted by the Rev. H. Montagu Dale, B.D., Vicar of Holy Trinity, Tulse Hill (uncle), Eric Archibald Newbery (lieutenant, Indian Army), grandson of the late Mr. Lionel Newbery, Charterhouse Square, London, E.C. 1, to Marjorie, eldest daughter of Mr. and Mrs. W. J. Longstaff, Westcombe Park, S.E. 3.

Pomfret—Whittaker.—At Blackburn, recently, Harry W. Pomfret, son of the late Mr. J. N. Pomfret (Pomfret Brothers, wholesale druggists, Fleming Square), to Margaret, eldest daughter of the late Mr. S. Whittaker.

Deaths.

Baxter.—At his residence, Arndilly, Grangemouth, on August 8, after a brief illness, Mr. James Baxter, J.P., chemist and druggist. Mr. Baxter was a native of Stirling. He qualified in 1868, shortly after the passing of the Pharmacy Act, and was in business in Grangemouth till early this year, when he disposed of his pharmacy to Mr. A. M. Wood, chemist and druggist. Mr. Baxter was a member of the Grangemouth town council for fifteen years.

Brayshay.—At Cranfield, Yarm Lane, Stockton-on-Tees, on August 4, Mr. Thomas Brayshay, Ph.C., aged seventy-eight. Mr. Brayshay passed the Major examination in 1863. He was in business in High Street, Stockton, until a few years ago, and was a member of the free library committee of the borough.

Brown.—At Rose Cottage, Baddeley, on August 7, after a long illness, Mrs. M. A. Brown, widow of the late Mr. George Brown, chemist, Hanley, and mother of Mr. Geo. W. Brown, chemist and druggist, Hanley, and of Mr. J. T. Brown, chemist and druggist, Ealing, London, W. 5, aged seventy-two.

McKinnon.—At his residence, Brompton Place, Hawkhill, Dundee, on August 7, after a lengthy illness, Mr. Daniel John McKinnon, chemist and druggist, 121 Hawkhill, aged seventy-eight. Mr. McKinnon was a native of Montrose, and served his apprenticeship there. Sixty years ago he went to Dundee as assistant to a medical man, and opened in business on his own account prior to the passing of the Pharmacy Act, 1868. Latterly he had become the owner of several fishing boats. Mr. McKinnon was a member of the Dundee Town Council for upwards of twenty years, and was three times elected a magistrate. He is survived by a widow and a son.

Morgan.—In a Manchester nursing home, on July 27, Mr. George Henry Morgan, chemist and druggist (George Henry Morgan & Sons, chemists, Wem and Whitchurch). Mr. Morgan, who qualified in 1873, carried on business in Shropshire for many years. He was a director of the Wem and Whitchurch gas companies, and was at one time a member of the Wem urban district council. He is survived by three sons and a daughter.

Perry.—At 25 Stanley Crescent, London, W. 11, on August 7, Mr. John Perry, D.Sc., LL.D., F.R.S., aged seventy. Mr. Perry was a professor at the Royal College of Science and treasurer of the British Association; he was also a past-President of the Physical Society of London and of the Institution of Electrical Engineers. He was the author of several publications.

Ransford.—On July 23, Mr. William Ransford, chemist and druggist, West Dene, Stoke Bishop, Bristol, late of Folkestone, elder son of the late Mr. Samuel Ransford, Champion House, Clevedon, and father of Mr. Leonard Ransford, chemist and druggist, Sandgate Road, Folkestone, aged seventy-two.

Wright.—At his residence, 533 Borough Road, Birkenhead, on August 2, Mr. Joseph Wright, chemist and druggist (Wright & Sons, chemists, 174 Park Road, Liverpool), aged sixty-nine. Mr. Wright had almost completed half a century in his business, which he took shortly after qualifying in October 1870. For some years past a son (Mr. Samuel Wright, chemist and druggist) has assisted him; a second son, Mr. Charles Wright, chemist and druggist, has a business at Prenton, Birkenhead; and a widowed daughter, Mrs. H. A. Smith, is the proprietress of another Birkenhead pharmacy. Mr. Wright was of a retiring disposition, and was devoted to his profession. The funeral took place at Bebington Cemetery, Birkenhead, on August 6.

Personalities.

Mr. W. J. Moody, son of Mr. W. J. Moody, Popham Drug Stores, Islington, London, N. 1, has passed the first examination for the M.B. degree in the University of London.

Mr. Charles Gerrish, Fletcher's Chambers, P.O. Box 390, Cape Town, is sailing for South Africa by the s.s. *Balmoral Castle* on August 13. Mr. Gerrish represents Southall Bros. & Barclay, Ltd., Birmingham, in South Africa.

Mr. Philip H. Hull, only son of Mr. J. H. Hull, chemist and druggist, Tadcaster and Boston Spa, has won a West Riding county major scholarship (at the head of the list of candidates) and also the "Brown" entrance scholarship at Leeds University. Mr. P. H. Hull passed the Inter. B.Sc. at the University while at school last year.

Mr. Theo. H. Wardleworth (National Drug and Chemical Co. of Canada, Ltd.), whose arrival in Liverpool was referred to in our last issue (p. 50), was in London this week. Mr. Wardleworth is ex-chairman of the Canadian section of the Society of Chemical Industry and a well-known figure in drug and chemical circles in the Dominion.

Mr. E. W. Harper, Ph.C., F.Z.S., of Bathgate & Co., Calcutta, has arrived in England with a large collection of live mammals, birds and reptiles for the London Zoological Gardens. The collection comprises an elephant, a fine pair of tigers, bears, wild dogs, jackals, foxes, deer, antelopes, eagles, vultures, pythons, and several species of poisonous snakes.

Sir Richard Cooper, Bart, M.P., who recently acquired the Franciscan convent at Lichfield (*C. & D.*, July 24, p. 65), has presented it to the city, of which he is a native. The present building, which stands in eleven acres of land, was erected in 1545. Sir Richard is leaving for South Africa at the beginning of September, and will be away from England for some months.

Wills.

Mr. William Wilton Parkin, 5 Pierremont Crescent, Darlington, for many years a partner in Parkin Ness & Co., manufacturing chemists, Skerne Mills, Darlington, who died on June 1, left estate of the gross value of 3,672*l.*, with net personalty 3,494*l.*

Mr. Thomas Henry Sutton, Marston Lodge, 57 Croydon Road, Anerley, Surrey, formerly in business as a manufacturing chemist in Bermondsey, who died on June 11, left estate of the gross value of 11,899*l.* 2*s.* 1*d.*, with net personalty 3,405*l.* 13*s.* 9*d.* Probate of his will dated February 18, 1909, has been granted.

Trade Notes.

Hovenden's Toilet Preparations.—A selection of the toilet preparations prepared by R. Hovenden & Sons, Ltd., is given in the company's advertisement in this issue.

Areco, Ltd., 11 Southampton Row, London, W.C., give particulars of a special offer of their toilet and complexion powders, which includes 1 doz. Nargis compact powders, free.

Harro-Sul-Wa.—This name is used as the brand-name of a series of toilet preparations made with Harrogate natural sulphur-water. The trade terms are given in the announcement of the Harro-Sul-Wa Toilets, 30 Parliament Street, Harrogate.

Electric Pocket-lamps.—The autumn season, which is now near at hand, will remind chemists who deal in electric pocket-lamps that their stock needs replenishing. To help chemists, Ward & Goldstone, Salford, enumerate some saleable kinds in their advertisement in this issue.

Agricultural Requisites.—Tomlinson & Hayward, Ltd., Lincoln, who manufacture seed-dressing, Burgundy mixture, and Eureka weed-killer, ask us to give chemists the useful hint that supplies should be obtained without delay, as railway rates are to advance considerably on September 1. *Verbum sap. sat.*

Lylco, Ltd.—Mr. G. D. Pullar, chairman of the directors of this company, desires us to emphasise the fact that Lylco, Ltd., with which Mr. De Lysle was connected (*C. & D.*, August 7, p. 54), is not in liquidation. The company consists of ex-Service men, who are energetically developing the business of manufacturers of perfumes and toilet requisites.

Beldam Sponges.—The Beldam Tyre Co. (1920), Ltd., have sent us a specimen of the rubber sponges which the company are advertising in The Chemist and Druggist. It is claimed that the Beldam rubber sponges last much longer than ordinary rubber sponges, and are exceptionally absorbent. We can testify from our examination of a sample that they are of exceptionally fine texture and beautifully soft. The sponges are supplied in five sizes.

Germ-quit.—Lawson & Co. (Bristol), Ltd., St. Philip's, Bristol, send us a sample of Germ-quit which they are advertising in this issue. The product is a stable hypochlorite solution standardised to about 3 per cent. of free chlorine, but the hypochlorite odour is skilfully disguised. Germ-quit is packed in distinctive square amber-coloured bottles, enclosed in substantial cartons, and the sale is restricted to the drug-trade, who are asked to recommend it as a general non-poisonous disinfectant. An advertising campaign in the public Press is being conducted at the present time, which should assist sales. There is also a scheme of demonstrations conducted at the larger centres of population, about which chemists should write to the company.

Opening of New "Lysol" Works.—Lysol, Ltd., have opened a new factory at Raynes Park. The formal ceremony was performed by Mrs. Bell, wife of the chairman of the company, on August 4. The premises, which are situated in the main Kingston Road, abut on to the London and South-Western Railway. The floor space amounts to over 20,000 square feet. The fitting, lighting, and arrangements for the staff have rendered the building a model factory. The canteen, which comprises two large dining-halls and a kitchen, is managed by a committee elected by the employés, under the presidency of Mr. Hogg, the works manager. Mr. S. H. Marshall, the managing director, estimates that the plant is capable of producing at least five times the output of the Stratford factory. An illustration of the new works is to be found in the company's advertisement in this issue. On and after August 16, all communications should be addressed Lysol Works, Raynes Park, London, S.W. 19.

The Burnley tramway committee has adopted a system of issuing special discount tickets to shop assistants for use within the limits of the prescribed closing hours.

Natal Pharmaceutical Society.

The annual meeting was held in the Municipal Buildings, Durban, on June 10. The President (Mr. J. W. Cooper) in his annual address, referred to the past year as being quiet and uneventful from a pharmaceutical point of view, the only outstanding events being the earlier closing of chemists' shops and the Pharmacy Board election. He regretted that the Union Government was unlikely to introduce the new Medical and Pharmacy Bill, much needed though it was, during this Parliamentary session. He also commented upon the course of instruction which had been instituted by the Technical College to give students a thorough education in subjects necessary for the qualifying examination, and suggested that the Society should do something tangible to encourage good results at these classes. The question of reciprocity of registration with the other provinces was thoroughly discussed, and Mr. D. S. B. Anderson, chairman of the Pharmacy Board, outlined the progress the Board had made towards establishing this. He hoped that before many months the principle of reciprocity would be established, and Natal qualified chemists be able to practise in any part of the Union. The following office-bearers were elected for the ensuing year. *President*, Mr. V. G. Acton; *Vice-President*, Mr. F. Firth; *Honorary Secretary and Treasurer*, Mr. A. M. Fyvie; *Committee*, Messrs. N. W. Hosking, W. T. Ryan, J. G. Hobkirk, and D. S. B. Anderson. Fourteen new members were elected, and the following were elected honorary members of the Society. Mr. B. M. Narbeth, Principal of the Technical College, Durban, and Dr. Wynn Westcott, now resident in Durban.

Natal Examination Results.—The Pharmacy Board held its quarterly examination on July 6 and 7. Of two candidates who presented themselves, Mr. W. Coote Field succeeded in qualifying.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/68. "Victor" washing glove
R/78. Epichlorhydrin
MR/98. "Wonder" dyes
C/98. "Bristol" sarsaparilla
RC/98. Logan's liniment
WR/98. Odules
BB/98. "Tapers of Lithium Salt (Guslin)"
P/108. Homogen
B/108. "Shettic" cachet machines
W/108. "Fleurs de France" concentrated perfume (Bachollet, Paris)
C/108. "Rhos" matchless cleanser
S/118. Ibogaine

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

Aletris cordial, JS/78
Aza dentine paste, S/98
Bandage - compressing machinery, TK/98
Bishop's citrate of magnesia, K/108
Blenosan capsules, MS/98
Bone shields for soothers, TR/118
Bragg's charcoal biscuits, K/108
Brou's injection, K/108
"Carmex," L/108
Cedarwood oil, F/98
"Celerina," JS/78
Cicfa, JS/78
Citric acid, WE/108
Cream of tartar, WE/108
Cremogen, D/108
Crêpe bandages, R/118
Dakin solution, H/98
Ecsolent compound, K/108
Frozoclone, V/98
Irish moss, L/118
Kaufmann's sulphur bitters, JS/78
"Kinosalve," K/307
Kopatine, BB/98
Krismol or chrysmol, BB/98
Licorice root and juice, WE/108
Linalyl acetate, F/98
"Londovus," HS/108
Methyl alcohol, H/108
Parazone, T/118
Percolator, glass, W/108
Phenyl ethyl alcohol, F/98
"Poppœa Rouge," B/78
Regal tooth-paste, C/108
Rheumatic socks, M/98
"Rhuaka," M/78
Schiffmann's asthma cure, L/246
Seidlitz-powder filling machine, BC/108
Shavoid, B/107
Smelling-bottles, F/98
Stock drawers, EW/118
Sirop Hemoglobine, Deshien's, C/97
Tartaric acid, WE/108
Thyruxine tablets, L/217 and BL/108
Tincture presses, W/108
Tinfoil for bottle capping, M/57

Observations and Reflections.

By Xrayser II.

The Proprietary Medicines Bill,

now that it has been published in full, proves to be more monstrously unjust than I had supposed. Not only are many of its features unjust, but the whole Bill is founded upon injustice, for virtually it provides that because some patent medicines are injurious or fraudulent none shall be allowed unless its proprietor can satisfy a court of justice that his is not so. This is clearly the effect of the clause relating to removals from the Register, and it is absolutely subversive of the old rule of English justice that every man shall be held innocent until he is proved guilty. Some of the more flagrantly unjust minor provisions of the Bill were strongly condemned in the House of Lords, but this fundamental injustice seems to have been ignored. The Minister may at his pleasure prohibit the sale of any patent, even although it has been admitted to registration; and though a right to appeal is granted, this appeal will be very difficult to sustain, for it will be of the nature of a defence against a charge founded not upon fact but upon opinion upon what to the Minister "appears" "likely" to happen. No removal from the Register ought to be allowed unless the medicine has actually been proved injurious, but this clause is entirely in accordance with the whole spirit and intention of the Bill, which is to make the Ministry of Health the autocrat of the trade in patents. Most of

The More Glaring Minor Injustices

of the measure have already been exposed. The worst of these is the forbidding of the advertisement of one medicine in the parcel containing another, for which no shadow of reason or excuse has been, or can be, alleged. The medicine so advertised may be of the most innocent, nay, the most useful kind, and one that may be advertised elsewhere without offence. Why should it be prohibited here? Not even the promoter of the Bill can say. For all that appears the prohibition is simply vindictive. Another great injustice which has not, I think, been pointed out is the short time allowed for petitioning Parliament against new Regulations introduced at the Minister's pleasure. It might easily happen, by prorogation or in other ways, that no opportunity of petitioning within twenty-one days could be found. I might go on indefinitely: the Bill is a tissue of injustice, an outrage, and there is no end to the objections that might be brought against it.

The Resolution of the Council

regarding the Provisional Committee appointed to consider the establishment of an Industrial Council for the drug-trade is puzzling, and, like Mr. Lloyd, though for other reasons, I object to its terms. The representatives whose action the Council regrets were presumably the representatives of the employés, but this is not stated. The "their" in line six of the resolution, as you print it, clearly does not refer to the same body as the "they" of line seven, but they are awkwardly close together, in spite of the semicolon between them. But the worst fault is the construction of the last clause, which leaves me wondering what on earth is meant. I can only conclude that "resolve," or some equivalent word, has been accidentally omitted. The discussion of the resolution was almost equally confused. Mr. Parry evidently spoke the truth when he said that some of the speakers were "entirely in the dark." Indeed, the whole Council seem to have been pretty hopelessly befogged, and the only conclusion an outsider can come to is that an Industrial Council is scarcely a feasible project. Whether the Local Associations Executive can deal with the question more satisfactorily than the superior body is doubtful. The Council may, however, be congratulated upon the happy thought of transferring its responsibility to its subordinate.

Mr. Thompson,

of the Wellcome Historical Museum, informs me that he has a reproduction of the interesting document relating to celestial treacle, described by your Paris correspondent a few weeks since, and I am indebted to a *C. & D.* reader for a reproduction of the document and a brochure on the history of the preparation by Dr. Ernest Wickersheimer. It appears that in the latter half of the seventeenth century the magistrates of Strasbourg ordered that apothecaries before compounding treacle, mithridate, and other preparations containing opium should submit the drugs of which they were composed to examination, each separately disposed on a table, so that there might be no doubt of the genuineness and purity of the several ingredients, and the document issued by the proprietor of this "celestial treacle" shows over a hundred of its ingredients so displayed, each in its own dish or other suitable vessel. Among these are also shown ornamental figures, curious pyramidal structures in green with a golden *fleur-de-lis* at top, coats of arms, figures representing the four continents of the world, the four seasons of the year, etc., and in the middle one of Æsculapius, rod and serpent in hand, beneath a triumphal arch supporting and supported by other emblematical figures. Some of the drugs are represented symbolically, as, for instance, opium by a sleeping negro, wine by a figure of Bacchus; names are subjoined to these and to some of the drugs themselves as an assistance to the imagination. The whole is very curious and should have been, as probably it was, a highly effective advertisement. I have not found any mention of this particular treacle in any English dispensatory. Our apothecaries seem to have been jealous of the pretensions of foreigners, and to have discouraged the demand for their nostrums. Alleyne (1733) says: "This foolish opinion of the foreign *Therac* being better than what is made here has occasioned the common people to have been cheated, as they too much deserve, with the worst of medicines for right *Venice*-treacle."

The City of Antwerp

celebrates this week the four hundredth anniversary of the birth of Christopher Plantin, the founder of the great printing-house, to whom we are indebted for the production of several of the most important herbals of the sixteenth century and for the illustrations of many more. It was he who printed for Dodoens and Clusius and Lobel the works by which they are known, and his plates were many times reproduced in later books of the kind. Plantin, of whom I gave some account not long ago, was a man of sterling worth and trying experiences. Born at St. Avertin, near Tours, some time between 1514 and 1525 (the precise year is not known) he was left to himself at a very early age and apprenticed himself to a printer at Caen. In 1545-46 he married a poor girl in his master's service and went off with her to seek his fortune in Paris, where he had been educated. In 1549 they removed to Antwerp and set up as bookbinders, the wife also keeping a small shop. A wound received in mistake for another man so injured one of his hands that he had to give up his craft and go back to printing for a livelihood. His career and the success he achieved need not be retold, but a word more may be said of the difficulties and misfortunes which beset him. All his sons died young, and he had to rely for help in his business on his daughters, who, almost from infancy, were of the greatest service to him. He was once prosecuted for heresy and had to go into hiding in France. In 1576, the year of the "Spanish Fury," he several times suffered siege in his house at Antwerp, and eventually removed to Leyden, returning, however, some years later to end his days in his old home. The fortunes of the business he founded were greatly advanced by his grandson Balthasar, son of his daughter Marine and her husband John Moretus (once his assistant). To Balthasar is owing the completion of the building in which the business was carried on, now the Musée Plantin-Moretus.

The Nelson (Lancs) Chamber of Trade is organising a shopping week, to be held at the beginning of October.

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Editorial Articles.

A Vital Issue.

The Proprietary Medicines Bill, to which we have referred before, is being rushed through the House of Lords at a rate which has caused several of the noble lords to protest that insufficient time is allowed for the consideration of so important a measure. Protest, however, will be unavailing in view of the declared intention of the Government to have the Bill ready for the Commons in the autumn, where it will doubtless be smugly recommended for speedy treatment as a measure that has received the leisured consideration of the Upper House. The report of the Committee stage, which we print elsewhere in this issue, is of considerable interest, the more so when one considers that the proceedings took place when very few of the noble lords were present. Some of these lords apparently approach the subject for the first time judging from their naive remarks on occasion, and others, such as Viscount Astor and Lord Dawson, were occupied with a flood of words in drawing off the attention of the serious section. A quorum was not present, and it was stated that if a division had been taken the Government would have been defeated on the question of the compulsory disclosure of trade secrets to the new horde of Government officials which will be required to administer the Act. We are glad to see that the Government was defeated on clause 3 (*a*), which proposed to make it a misdemeanour to enclose with a proprietary medicine advertising matter referring to another remedy—an example of vindictiveness which the Lords could not stand. Notwithstanding the seriousness of the situation, chemists will be amused to read of Viscount Astor referring to proprietary medicines alleged to contain sulphate of zinc. He was at the time endeavouring to prove that it would not be sufficient for the purpose of the Bill to have to declare the presence of scheduled poisons in a proprietary medicine. He also referred to a case in which two children are stated to have lost their lives by taking a patent medicine containing an ingredient which is not a poison. As this took place fifteen years ago, poisoning by proprietary medicines is apparently very much rarer than, for instance, poisoning by

doctors' dispensing mistakes. Lord Bledisloe, who took part in the proceedings, was, as Mr. Charles Bathurst, a member of the Select Committee on Patent Medicines. Since then he has been elevated to the peerage, and has an undisputed opportunity of pushing his own views on the matter in the absence of Lord Burnham in Canada, who was on the Committee as Mr. H. Lawson. Lord Bledisloe appears to have an idea that the Bill will affect the use of synonyms for synthetic remedies, and he is hazy as to what "synthetic" means. We cannot see that the definition of proprietary medicine will include the sale of antipyrine, antifebrin, and hundreds of other synthetic chemicals unless they are put up with recommendations for the "prevention, cure, or relief of any malady, ailment, infirmity, or disorder affecting human beings"—which seldom happens. Disclosure of trade secrets is the vital issue of the Bill, and we hope the manufacturers will fight this with all the power they possess, because of its importance to the whole trading community. The implication that only the Registrar of Proprietary Medicines would know the trade secrets of persons who registered their formulas is obviously incorrect. The official analysts would require to compare the formulas with the results of their analyses, and the medical men at the Ministry of Health would need to consider the composition of the medicine if they are to carry out the regulations which require them to decide on therapeutic claims made on the labels and circulars. Further evidence that it is not intended to confine the knowledge to one person is given in the Report of the Select Committee on Patent Medicines, which recommended the establishment of a Committee at the Ministry of Health for the purpose of regulating proprietary medicines. This Committee is to consist of "the necessary departmental officials," of a representative of the police, and of non-official persons of recognised eminence in chemistry, therapeutics, pharmacology, and public health, and, as we have pointed out, will have to be assisted by working analysts and the large number of thousand-a-year medical men at the Ministry of Health. The danger in the Bill is a very real one to the drug-trade, as not only will goodwill amounting to millions of pounds be imperilled, but the Bill is to be followed by alterations in the Medicine Stamp Act, which will abolish the privileges which chemists enjoy in the sale, unstamped, of "known, admitted, and approved remedies." Meanwhile the Pharmaceutical Society, if it is acting in the interests of chemists, is keeping the fact quiet. Judging, however, by references in the official organ, the Society's attitude to the Bill is one of qualified approval. The statement is made that the Bill is "on the whole a moderate and reasonable attempt to introduce what is generally admitted to be a necessary system of control of abuses in a traffic which for the most part is quite legitimate." It would be interesting to know whether this view is endorsed by the secretary of the Pharmaceutical Society in his capacity as secretary of the Proprietary Articles Trade Association. The Pharmaceutical Society apparently approves of the Bill, but we hardly think that the P.A.T.A. will view with equanimity this attempt to destroy the trade in proprietary medicines.

The Quicksilver Market.

It is just about a month since the price of quicksilver was raised by 10*s.* per bottle to 20*l.* 10*s.* to 21*l.*, which quotation has been closely representative of the market over this period. It is curious, however, that prices have not fluctuated in the least of late, whereas in the course of the first half of the year frequent oscillations were experienced. The market apparently has not been over-supplied at any time. So far this year our net imports have been comparatively restricted, and this would tend to the assumption that the marketing from the main European sources of production has become more or less regulated in accordance with current and prospective needs. Supply and demand, for the time being at any rate, seem closely balanced, and it is not improbable that the second-hand surplus supplies which had been retained in Continental countries over the armistice period, in anticipation of the continuance of high prices, have now been largely disposed of. Only small parcels have lately come to hand from the Continent outside of the chief producing countries. So far as can be gathered, the much higher prices that have ruled over the war-period have not resulted in any very material increase in the world's production, while the special efforts that were made to develop output under war pressure were later relaxed. The American mines had been worked under particularly intense pressure, and many of these apparently became exhausted as indicated by the remarkable falling-off in the returns of output during the last year or two. The heavy deficit in American production must now be regarded as a most important factor, as domestic consumption is very considerable and has to be partly supplied by more extensive imports from Europe. Some very interesting particulars have been disclosed by accounts which have been published in Italy, in regard to the progress of the industry in that country, and also in those territories acquired by Italy from Austria as a result of the war. The cost of exploitation has been very substantially increased, and wages, which at the chief Italian mines in the Monte Amiata region prior to the war averaged 3½ lire per day, were during the war-period increased by nearly 160 per cent. to 9.10 lire per day. There was later an interruption of work for about three months owing to a strike for still higher wages, which was settled last autumn on a fresh arrangement based on piece-work. Additional costs were also involved by fuel difficulties, and it is thus clear that the expenditure for the treatment of the ore at the Monte Amiata mines, which in pre-war times amounted to the comparatively low rate of a little over 4 lire per ton, has been enormously increased, but no up-to-date estimates of cost of working are available. The returns of the Monte Amiata mines in the Groseto-Siena district were as follows: 1915, 985 tons; 1916, 1,093 tons; 1917, 1,071 tons; 1918, 1,038 tons. According to official Italian estimates the output of the Idria mines for 1918 is placed at the same rate as for 1914—viz., 600 metric tons, which together with the Italian production at the Monte Amiata mines for the same year at 1,038 tons, would make the total output under Italian control, 1,638 metric tons. As will be seen from the returns given above of the Monte Amiata mines, there was a slight set-back during 1918, and in view of the rapid mounting up of costs it may be assumed that there has been no important increase in last year's production either at the Idria or Italian mines proper. The fact deserves notice that although the output of the Idria mines is materially under that secured at the Monte Amiata mines, the number of men engaged at the former is about 1,200, against only 900 at the latter. It can therefore only be concluded that operations at the Monte Amiata mines are being conducted on more scientific and up-to-date methods. The ancient type of distilling retort-ovens, which were spreading mercurial

fumes and therefore dangerous to the surrounding country, were dismantled and replaced by new and better types of ovens for the treatment of large fragments of ore. By this new system of working, which requires additional quantities of fuel, waste has thus been reduced to a minimum, but owing to the heavy inroads made upon timber resources for fuel and mine-props, the question is now under consideration of adopting the use of electric furnaces for the treatment of the ore. Hydro-electric energy could be secured from water-power from the Apennines, but experiments made so far in the way of electric-smelting in North-West Italy by the Ansaldo interests has proved a costly matter. Dealing with the position and outlook in quicksilver in our issue of May 22 (p. 81), we referred to the proposed scheme under the auspices of the Italian authorities for the inception of an international combine to include the Italian mines proper, as well as the Idria and Spanish concerns. This scheme is now said to have been suggested by the leading spirit of the Monte Amiata properties with the assistance of the three leading Italian banks. The formation of such a combine would, of course, mean the placing of the bulk of the world's resources under one control, and thus have a most important bearing on the future of the mercury industry. This attempted control, if realised eventually, would be rendered the more effective, since the American output has fallen to comparatively small dimensions. The Italians appear disposed to make the most of their opportunities, and are now instituting a survey in order to discover new cinnabar deposits in the Trentino on the Dalmatian coast. During the war-period the whole of the Italian output was acquired by the Italian Government on the basis of 12 lire per kilo., and they subsequently fixed the market price at 25 lire per kilo. Within recent years frequent changes have taken place in regard to the financing of the Italian mines, which financing prior to the war was largely left in German hands. At the outbreak of war, and until Italy joined the Allies, the matter of finance was taken up by Swiss banks, but since the armistice all financial arrangements have passed into the hands of Italian banks under the lead of the Banca d'Italia.

Poisons Schedule Alterations.

For some reason which we do not know the consideration of the alterations in the poisons schedule at the Council-meeting of the Pharmaceutical Society last week was conducted in private. This matter of alterations to the poisons schedule, being one of the most important functions of the Society under the Pharmacy Acts, should be carried on while reporters are present, or at least the resolution should be supplied to the public Press. The alterations which it is intended to submit to the Privy Council for approval are required to make the poison schedule conform with the clause—8 (*a*)—of the Dangerous Drugs Bill which is awaiting the Royal Assent. The clause referred to is as follows :

8. (1) The drugs to which this Part of this Act applies are morphine, cocaine, ecgonine, and diamorphine (commonly known as heroin), and their respective salts, and medicinal opium, and any preparation, admixture, extract, or other substance containing not less than one-fifth per cent. of morphine or one-tenth per cent. of cocaine, ecgonine, or diamorphine.

For the purpose of the foregoing provision the percentage in the case of morphine shall be calculated as in respect of anhydrous morphine.

Ecgonine is related to cocaine, the letter being methyl-benzoyl-ecgonine, and it was probably on account of the ease with which ecgonine could be converted into cocaine that it was first included in the Cocaine and Opium Regulation under the Defence of the Realm Act. Ecgonine, *per se*, is not, so far as we are aware, employed in medicine, and it is not included in the poisons schedule at present in force. The following are the terms of the resolution of the Council of the Pharmaceutical Society regarding the proposed alterations in the poisons schedule :

(*a*) That the description in Part I. of the Schedule to the last-named Act, "Coca, any preparation or admixture of, containing 1 or more per cent. of coca alkaloids," ought to be removed therefrom, and that the description, "Coca, any preparation or admixture of, containing 0.1 or more per cent. of coca alkaloids," ought to be added thereto.

(*b*) That ecgonine and all preparations or admixtures containing 0.1 per cent. of ecgonine ought to be added to Part I. of the Schedule to the Poisons and Pharmacy Act, 1908.

(*c*) That the description in Part I. of the Schedule to the last-named Act, "Opium and all preparations or admixtures containing 0.75 or more per cent. of morphine," ought to be removed therefrom, and that the description, "Opium and all preparations or admixtures containing 0.2 or more per cent. of morphine," ought to be added thereto.

(*d*) That diamorphine (also known as heroin) and all preparations or admixtures containing 0.1 per cent. of diamorphine, ought to be added to Part I. of the Schedule to the Poisons and Pharmacy Act, 1908.

(*e*) That zinc chloride and liquid preparations of zinc chloride, except preparations intended to be used for soldering, provided that they are contained in closed vessels labelled with the word "poisonous," and bearing the name and address of the seller and a notice of the special purposes for which the preparations are intended, ought to be added to Part II. of the Poisons and Pharmacy Act, 1908.

(*f*) That the description in Part II. of the Schedule to the last-named Act, "Coca, any preparation or admixture of, containing more than 0.1 per cent., but not less than 1 per cent., of coca alkaloids," ought to be removed therefrom.

It will be seen that the cocaine-containing preparations down to an alkaloidal content of one-tenth per cent. are to be in Part I. of the schedule. Previously preparations containing 1 per cent. were in Part I. and weaker preparations in Part II. Similarly opium preparations containing as little as one-fifth per cent. of morphine are now to be in Part I. In March 1916 preparations containing 0.75 per cent. of morphine were added to this part; previously the strength included was 1 per cent. and over. Diamorphine and its preparations are also added to Part I. The opportunity has been taken to add zinc chloride and liquid preparations (except soldering preparations) to Part II. This chemical was first proposed to be scheduled in a Government Poisons Bill in 1886, when it was placed in a third division of the poisons schedule and could be sold by anyone provided it was labelled "Poison." Zinc chloride is one of the substances that the Privy Council for some reason have always desired to add to the poisons schedule, and no doubt the Pharmaceutical Council has received instructions to carry out the wishes of this autocratic Government Department. The fact remains that zinc chloride is seldom used for poisoning purposes. Looking through our records, we find that in the twenty years (1899-1918) there have been five suicides from zinc chloride, and fourteen cases of fatal accidental poisoning. It is not stated, however, in the Registrar-General's returns how many of these were due to zinc-chloride solution employed as a soldering fluid or disinfectant.

Indian Trade with Germany.—The Government of India recently announced their intention of excluding Germans from India for a period of five years from the date of the conclusion of the war; but, though they do not propose to allow Germans to handle trade in India for this period, there is no objection to Indian firms resuming trade relationships with German firms.

Pharmacy Abroad.

n address prepared for the British Pharmaceutical Conference, Liverpool, 1920, by W. H. Saunders.

my recent tour round the world, I visited pharmacies Canada, the United States of America, Honolulu, New aland, Australia, Manila, Japan, China, Ceylon, ypt, etc.; and, were the time at my disposal longer, should have liked to describe some of them more lly. First of all, it goes without saying, the largest ug-stores in the world are in America—they are mense. As you know, American chemists do not confe themselves to the drug-trade; a larger proportion of eir premises is occupied by the inevitable soda-fountn, cigar-counter, candy department, and frequently stanery, periodicals, and other articles.

Everywhere abroad I found that pharmacy, or, to use e correct term, the drug-trade, was on a far bigger scale an at home. I heard of one drug-store in America (one Liggett's branches in McAlpin's Hotel, Broadway, New rk) under a rent so big that I thought it was an exgeration. I made it, therefore, my business to investite the matter, and was fortunate enough to come ross a man who himself had been willing to pay the nt demanded provided he was allowed to let off a rtion for another business—this, however, the hotel ople would not allow. He assured me that the rent question was absolutely correct, and one that he himlf was quite willing to pay, provided he was met with spect to the letting off. The rent was $125,000 per ar—in other words, more than 25,000*l*. (Speaking of ggett's drug-store, I was favoured with a personal inview with Mr. Liggett himself; I found him a most pable, smart, up-to-date, courteous man, and one of the est types of business men I have ever met.) I spent day in going through the laboratories and premises of e United Drug Co. in Boston, and found them magnifitly equipped and absolutely up to date. When I tell u that, among other labour-saving appliances, I saw one be-filling machine capable of turning out 25,000 tubes day, you will appreciate how interested I was in going rough.

The most beautifully fitted and handsome pharmacy noticed, however, in all my travels, was one in Philalphia, run by Mr. X.—for obvious reasons I do not give e name; altogether he has five branches there, and the ggest one (in Market Street) is the very last word in auty of finish and arrangement. I was told how many ousands of electric lights were installed, but I have rgotten the number. I never saw a drug store so absotely perfect. The dispensing department was a sight itself to behold; each dispenser was in uniform and d his own apparatus, utensils, everyday drugs, etc., his very hand. There was a curious way, quite new me, of pricing prescriptions, the drugs being charged their own list prices and one dollar per hour added for bour. All over Philadelphia, in brass letters inserted in e pavement, the phrase met one's eye, "Get it at Mr. 's"; and, judging from the big trade done, I imagine at most of the people did go to Mr. X's. Incidentally, was informed that the rent of his five pharmacies all ld amounted to $110,000, his takings to $2,500,000, and s staff, including those in the factory, numbered 500. was struck with one remark made: "I adopt the prinple of maintaining that the customer is always right; a customer brings back any article with a complaint no uestion is asked, simply the money returned."

I found one drug-store in Canada with a café attached -I do not mean next door, but under the same roof—pable of seating 400 people. I visited a pharmacy in ritish Columbia with the most magnificent collection of ophies of the chase I ever saw in my life—heads of son, buffalo, reindeer, eagles, moose deer, and many her superb specimens, all arranged round the pharmacy ove the shelving; the effect was wonderful, and the oprietor was, I need not say, an authority on big-game ooting, the trophies being all from his own gun.

In New Zealand I was much struck by an arrangement, olding all through that country, of pharmacies being closed at six o'clock in the evening and one o'clock on Saturday; and in all the leading towns a small limited company had been formed, and a dispensary opened for dispensing all medicines after those hours, profits, if any, being divided among the chemist shareholders. Early closing was also the rule in Australia. In both these countries the pharmacies were just like our own (no soda-fountains or cigar-counters), and one might easily imagine oneself in an English chemist's shop.

In Manila, belonging as it does to America, the drug-stores were run on the American system. I was amused at finding in one a very low table with tiny chairs. I asked the reason, and the proprietor said that these were for little children to sit and eat their ice-creams at; as a matter of fact, in America ice-creams form part of the diet for children.

Coming to Japan, there were only about five English pharmacies, the remaining trade being entirely in the hands of natives. I was interested, in calling upon one large Japanese wholesale drug-house, by being met at the door by a Japanese girl, who gracefully relieved me of my hat and coat, conducted me to a seat, placed before me an *hybachi* (a container in which charcoal is burnt—there being no fireplaces in Japan), and brought me tea and cigarettes. I visited a few native Japanese pharmacies; some of them had no windows, the goods being displayed on counters something like we see in butchers' and fishmongers' shops in England. The proprietor of an English pharmacy in Japan invited my wife and myself to a Japanese dinner. As you perhaps know, there is practically no furniture in Japanese houses, the sole article of furniture in the dining-room being a low table from 12 in. to 18 in. high; there are no chairs, no sofa, no piano, and only one picture, vase, or work of art; and, incidentally, there is not a single article of furniture in the bedrooms—if one person is sleeping in a room, one bed is brought in and laid on the floor; if more than one, removable screens are placed round each bed; the room itself is absolutely bare of all furniture. On arrival we were met at the front door by a servant, who removed our shoes; we entered in our stockinged feet and sat on our haunches at the low table for three hours, partaking of a most excellent and picturesque dinner. There were, of course, no knives, forks, or spoons, only chopsticks; beside each guest was placed an *hybachi*. Geishas sat near us and entertained us the whole evening—they danced, they sang, they played on musical instruments to us, smoked cigarettes with us, and drank *saki* with us. In the East the ladies of the host's household never appear at any function, all the entertaining being done by Geishas. After dinner we were conveyed in a jinrickshaw to view by moonlight a monster Buddha (the Diabutsu) 60 ft. high—a sight I shall never forget.

In China there are few English pharmacies and an enormous number of native ones. All the English ones are like our own; they confine themselves entirely to the drug-trade. I called to see one important wholesale Chinese druggist who was good enough to ask my wife and myself to a Chinese dinner. It was a magnificent affair, held in a swell native restaurant, and about nine guests, all Chinese, had been asked to meet us—two being medical men, one of whom had graduated from Cambridge, and the other from London. Dinner lasted three hours, and I should say we had thirty courses; every half-hour a hot damp cloth was brought round to wipe our faces and hands with.

I visited several pharmacies in Ceylon; there, too, as in China, about half a dozen were English, the remainder native. In Ceylon two of the English drug-houses were enormous establishments, and were, in fact, more like our departmental stores; the curious fact is, that it was not a departmental store with a drug-counter added, but a pharmacy with departmental stores brought in.

At Port Said the pharmacies were entirely French. One pharmacist was most hospitable, and would insist upon sending out for Turkish coffee, which we drank in the shop; we never had such coffee in our lives. I was much amused in another, a very large one; the manager informed me the proprietor was ill in bed, and insisted upon ringing him up on the 'phone saying I was there.

The proprietor gave instructions that I must come to see him; I was at once whirled off in a carriage and pair and taken into the bedroom of the sick man, who expressed his delight at shaking hands with anyone in the drug-trade from England.

I dare say I may be asked what are my general impressions concerning pharmacy abroad. I saw so much and travelled so fast that I have not yet had time to get my ideas into shape. I should say, however, that the main impression of my mind is that members of the craft abroad hold larger views, have bolder ideas, and bigger turnovers than those in the home country—I make these remarks with some hesitation. It seemed to me that abroad there was more courage displayed; they did not seem afraid to take a profit—profit to them seemed more than pharmaceutical ethics. I do not say they had no ethics, but undoubtedly profit came first—they candidly avowed that their objective in running a drug-store was to make money. I was struck, in one enormous drug-store in Chicago, with a phrase used in an interview I had with the manager, who informed me he himself knew nothing whatever about the drug-trade. His words were: "I am a business man; indeed, do not know one drug from another; but I understand the art of running a business like this and making money out of it." Speaking of courage and the public, I asked one chemist in New Zealand what he did if a customer came in for a proprietary line, or anything else, and said he could get it cheaper elsewhere; his reply was, "I simply suggest, as politely as I can, that he should go elsewhere and get it." I was invited to a chemists' meeting in Australia, at which the main point of discussion was whether they should charge 4*s*. 6*d*. or 5*s*. for an 8-oz. mixture. They did not seem, somehow, so much afraid of the public or of losing a client as we are in this country. They close at six o'clock in the evening and one o'clock on Saturday without turning a hair; and when an invoice comes in from, say, England, they price the goods with their own idea of profit, regardless of what other houses charge. The P.A.T.A. have a branch there; the minimum is always observed, but they make their own individual maximums.

I must not close my few remarks without referring to the premises of Parke, Davis & Co., Detroit—going through these was an education in itself, really wonderful. Their premises are situated on the banks of Lake Erie, with a branch house on the other side of the lake in Canada. The total staff employed in both places is about 3,000.

No talk about pharmacy abroad, however brief, would be complete without mentioning three men I met, and from whom I received a great amount of courtesy and hospitality—Mr. R. C. Cowley, late of Liverpool, and now head of the College of Pharmacy in Brisbane, Australia; Mr. C. S. Butcher, Professor of the Melbourne School of Pharmacy; and Mr. Frederick James Wulling, Dean of the University of Minnesota (in connection with which there is a very large and magnificently equipped College of Pharmacy). All three of these are engaged in training students for pharmacists; all three, I may say, are men of more than local note, and all three are deeply interested in the future of pharmacy, and all very keen on the progress of pharmaceutical training in Great Britain.

I would urge any young pharmacist, before commencing business in this country, to take up an assistantship abroad, either in our Colonies or the Far East. In my opinion, he would not only be a better pharmacist, but a better business man. I say, with all deliberation, that business capacity and training in commercial affairs are quite as necessary for success in pharmacy as the diploma granted by the Pharmaceutical Society; by taking up a berth abroad for, say, three years, he would return with wider views, fuller experience, more *savoir faire*, and in every way a bigger man than he went out.

In conclusion, I should like to express my appreciation of the great courtesy, hospitality, and kindness which Mrs. Saunders and myself received from the pharmacists and their wives with whom we came into personal contact. It was delightful to us, as strangers in a strange land, to be asked, not only to their clubs and their hotels, but also into their homes—they placed at our disposal their time, their motor-cars, and everything they had. They seemed delighted to have the opportunity of welcoming anyone from "Home," as Great Britain is universally styled all through our Colonies. This kindness, friendship and hospitality will long linger in our memories.

Association Affairs.

Edinburgh.—The Edinburgh Chemists' Assistants' and Apprentices' Association held the fourth botanical excursion of the summer session on August 4 at Colinton. The company was received by Mr. P. McComish Dott (brother of Mr. D. B. Dott) at his charming house, Hailes Brae, and was conducted over his artistically arranged garden. The garden has been designed and carried out by Mr. McComish Dott, whose intimate knowledge of all the plants made the visit a highly educative one. The company walked back to town by Colinton Dell and Craiglochhart after one of the most enjoyable excursions of the season.

General Workers' Union.—The Newcastle-on-Tyne pharmacists' section of the National Warehousemen's and General Workers' Union met at Newcastle, on August 11, under the presidency of Mr. W. J. Gibson, chemist and druggist, when it was reported that the claim for increased salaries in accordance with the national programme had been placed in the employers' hands, but that no reply had as yet been received. A resolution was adopted urging the executive to press the matter. The meeting agreed that amalgamation with the Amalgamated Society of Pharmacists, Drug and Chemical Workers is essential to both bodies, and the executive of the National Warehousemen's and General Workers' Union was instructed to take measures to bring about the fusion.

Staffordshire.—A meeting of the Employers' Section of the Staffordshire Pharmacists' Association was held recently under the presidency of Mr. A. S. Price, who, after a brief explanation of the reasons for the postponement of the election of the Local Associations Executive Committee, dealt with the question of submitting figures relating to wages, rates, etc., to show the increased costs of Insurance dispensing. He appealed to proprietors to send statistics to the secretary or to the L.A.E.C. Wages in South Staffordshire have increased 30 per cent. and rates 50 per cent. during the past six months. A letter from Mr. H. O. Lloyd thanked members for their support during the Council-election campaign. The secretary reported that the Pharmaceutical Society scheme for the permanent record of military and other services of pharmacists had been considered by the Committee, and after discussion the meeting deemed the scheme to be impracticable. A letter from the L.A.E.C. regarding the scale of wages was discussed, and a resolution was directed to be sent to that body. A list of unprofitable proprietaries was submitted from the Federation for consideration, and a resolution was passed in support of any action which may be decided upon by the West Midland Federation with regard to the list of proprietaries submitted by the Federation secretary. Messrs. Garland (Executive Committee), Fowke, Belsher, and Trotter were appointed delegates to the meeting of the Federation.

The death has taken place at Vienna (states a message from Berlin) of Dr. Adam Politzer, the ear specialist. Dr. Politzer, who was eighty-five years old, was educated at the Universities of Vienna, Würsburg, Paris, and London.

The Bayer Chemical Works Closed.—As a result of a strike at Leverkusen, the Bayer Chemical Works closed indefinitely on Monday, August 9. Yielding to threats the directors had agreed to pay the 10 per cent. tax deducted from wages, but the Employers' Union intervened and cancelled the arrangement, precipitating the strike.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Devon.—A meeting of the Pharmaceutical Committee was held at Exeter on August 4, Mr. W. J. Shepperd in the chair. The report of the Central Checking Bureau for February was considered satisfactory. Communications from the Ministry of Health concerning the medical benefit regulations, and from the Ministry of Pensions relative to malaria clinic dispensing, were also received. It was agreed that the dispensing-fee of 5*d.* on prescriptions for malaria clinics is quite inadequate in view of the high average cost of these prescriptions.

Warwickshire.—At a meeting of the Insurance Committee on July 29, the Medical Benefit Sub-Committee reported that the average cost of prescriptions had increased from 6.39*d.* in 1916 to 8.59*d.* last year, while the annual number of prescriptions had risen from 158,419 to 173,144.

SCOTLAND.

Stewartry.—At a recent meeting of the Insurance Committee it was reported that at a meeting of chemists a discussion took place regarding certain doctors dispensing where there are chemists. As under the new regulations the doctor must have the sanction of the local committee and the Board of Health, the complaint was remitted to the General Purposes Committee.

Summer Outing.

Hedges (Chemists) Outing.

The staff of Hedges (Chemists), Ltd., Birmingham, with their friends, went for an outing to Bidford-on-Avon, *viâ* Stratford, on July 28. The party, numbering nearly eighty, left Dale End by motor chars-à-bancs, and at Stratford-on-Avon a short time was spent visiting the various places of interest. On arrival at Bidford tea was waiting in Holland's Pleasure Grounds, and afterwards a vote of thanks was accorded to the general manager, Mr. Rigg, for promoting the outing. Cricket was then indulged in by some of the party, and the river was well patronised. A start for home was made about 8.30, everybody being delighted with the happy time they had spent.

Herbalists and Superstition.—Some remarks on "Herbalists' Cures and Spells," contributed to "The Times," almost suggest, on a casual reading, that the article was destined for a more sensational paper. "The scene," we read, "is the little shop of a herbalist in the East End. . . . The herbalist—an old man with a white beard . . .," and so forth. The writer, however, is on firmer ground when he remarks: "In a cosmopolitan city like London most of the superstitious survivals of the world are to be found. Superstitions were certainly revived during the war. There was a remarkable vogue in fortune-telling and a demand for charms and amulets which brought good luck or preserved the wearer from danger. In this way, what are called the lower and uneducated classes stretched out their hands gropingly to try to get into touch with the supernatural, just as the better and more intelligent ranks of society availed themselves of the spiritualistic 'mediums' for the same purpose. . . . The depth of human credulity is still more exhibited by the stone having a natural hole through it, which averts bad dreams—unpleasant things in themselves and forecasts of evils to come. The more gruesome an object is the more efficacious it appears to be. There is hardly anything that a coffin-ring got out of a grave will not accomplish; and next to that in efficacy is a stone which has been bitten by a mad dog.

Czecho-Slovak Insurance Drug Tariff.

In countries with a depreciated currency the increased cost of drugs is a very serious consideration, not only to the private individual, but particularly to the sick clubs, as their drug bills now assume, compared with the pre-war expenditure, alarming proportions. The Czecho-Slovak Republic recently issued a special drug tariff for application to all prescriptions for members of sick clubs, from which the following points are quoted. The following charges are to be made for compounding, the amounts being stated in crowns and hellers; the pre-war value of a crown was 10*d.*, and the crown is divided into 100 hellers:

Suppositories, for each of the first five	1.00
Decoctions and infusions, up to 250 grams	1.50
Mixture of two or more liquids	0.40
Pills, for making up to fifty pills	1.50
Powders, for simply mixing one or more, up to 100 grams	0.70
Divided powders, charge for mixing	0.30
,, ,, for each powder additional ...	0.05
Solutions, or suspensions up to 500 grams	0.70
Ointments, up to 100 grams	1.00
Bottles, up to 50 grams capacity	0.40
,, ,, 100 ,, ,, ...	0.48
,, ,, 200 ,, ,, ...	0.56
(For a cork a charge of 10 hellers is made.)	
Ointment-jars, up to 20 grams	0.60
Round powder-boxes, up to 50 grams... ...	0.60

Below are quoted a few of the tariff charges for the more important drugs used in compounding prescriptions:

	Grams	Charge
Acetanilid.	10	2.85
Acid. boric.	10	0.45
Acid. citric.	10	1.95
Acid. salicylic.	10	1.25
Æther	100	12.20
Aloe, pulv.	10	0.70
Antipyrin	10	4.80
Argent. nitr.	1	3.00
Atropin. sulph.	0.1	4.50
Adeps præp.	100	7.20
Bismuth. subnitr.	10	8.40
Camphora	10	7.50
Chloroform.	100	6.65
Cocain. hydrochl.	0.1	2.00
Extract. belladonn.	1	0.40
Extr. hydrast. liq.	10	18.00
Glycerin.	100	3.80
Hydrargr. subchlor.	1	0.35
Morphin. hydrochlor.	0.1	0.95
Ol. olivæ	100	9.45
Ol. morrhuæ	100	8.70
Opium	1	1.55
Pot. brom.	10	1.40
Pot. iodid.	10	10.65
Quinin. sulph.	1	2.10
Rad. ipecac. pulv.	1	1.05
Saccharum	100	1.10
Santonin.	0.1	2.05
Sapo mollis	100	1.40
Sod. salicyl.	10	1.50
Sod. sulph.	100	0.45
Tinct. digital.	10	0.40
Tinct. iodi.	10	1.60
Ung. acid. boric.	100	4.05
Ung. aq. rosæ	100	11.85

Thus, a prescription for a member of a sick club calling for a solution of 10 grams of pot. iodid. in 100 grams of water costs, including the bottle, 12.02 crowns (nominally 10*s.*), and five powders each containing 0.5 gram of acetanilid. cost now 1.15 crown (nom. 11½*d.*).

The termination of the war between Great Britain and Austria has been fixed by Order in Council as July 16, 1920.

Advertisement Exhibition.—It is announced that in November an international exhibition of advertisements will be held at the White City, London, W. The address of the organising committee is 167 Strand, W.C. 2.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," July 7, 1920.)

"Kamelant"; for medicinal chemicals (2). By J. M. Cameron, High Street, Bognor. 399,936.

"Elkar Brand Medicinal Paraffin"; for medicinal paraffin (3). By J. E. Ellis, 8 St. Michael's Road, Headingley, Leeds. 400,753. (Associated.)

"Peddip Appetiser & Liqueur" on label device; for a medicated beverage (3). By M. Silverstone, 17 Lawrence Lane, Cheapside, London, E.C. 2. 402,684. (Associated.)

"Atma"; for curative vaporising apparatus (11). By Ohly & Carmona, 75 Aldermanbury, London, E.C. 2. 403,025.

"Lurlib"; for a stain remover (47). By the Renovo Manufacturing Co., 202 North Street, Leeds. 402,323.

"Beautos"; for soap and teeth preparations (48). By Kenwicks, Ltd., 4 Queen Anne Buildings, Baldwin Street, Bristol. 401,415. (Associated.)

"Vesper"; for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 402,365. (Associated.)

"Iatif"; for soap and toilet preparations (48). By A. Barker & Co., 151A Stanhope Street, London, N.W. 1. 402,591.

"Canatrol"; for a dentifrice (48). By Ber Katz, 2 North Terrace, Norton Road, Stockton-on-Tees. 402,649.

"Orquise"; for perfumery, etc. (48). By Vinolia Co., Ltd., 37 Upper Thames Street, London, E.C. 4. 403,403.

"Esperine"; for all goods (48). By E. R. Johnson, 6 Dovercourt Road, London, S.E. 22. 403,594.

(From "The Trade-marks Journal," July 14, 1920.)

"Burbolineum"; for wood preservatives (1). By Burt, Boulton & Haywood, Ltd., Salisbury House, London Wall, E.C. 2. 402,749.

"Delcred" with device of dog's head; for dog medicines (2). By The Delson Chemical Co., Inc., 42 Penn Street, Brooklyn, U.S.A. 401,188.

"Flujel Brand a Medicinal Preparation"; for a medicine (3). By C. A. Langham, 1 King's Court, Hove, Sussex. 400,117. (Associated.)

"Renbas Brand" and oval device of fish and bird; for all goods (3) and (11). By Renbas Manufacturing Co., Ltd., 52 Princess Street, Manchester. 401,055/056. (Associated.)

"Neydowd Brand an Embrocation"; for an embrocation (3). By G. T. Dowdney, Ancient Foresters Inn, Bush End, Takeley, Essex. 401,631.

"Protemor Brand a Pharmaceutical Product"; for a pharmaceutical product (3). By The Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3. 402,931. (Associated.)

"Pyofrice Brand an Antiseptic Preparation for the Teeth"; for a teeth preparation (3). "Pyofrice"; for perfumery, etc. (48). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 401,664/5. (Associated.)

"Jaap's Health Salt or Grape Saline," etc., with device of grapes ("Jaap's" disclaimed); for health salts (3). By J. Jaap & Co., 268 Buchanan Street, Glasgow. B 403,092.

"Trovyl Brand Tonic"; for a tonic (3). By Torrens Trotter, The Chaplaincy, Hale Street, Poplar, London, E. 14. 403,252.

"Géothane"; for medicinal chemicals (3). By J. Robert, 37 Rue de Bourgogne, Paris. 403,582.

"Phenoquin"; for phenylcinchoninic acid (3). "Neo-Phenoquin"; for lithium salt of phenylcinchoninic acid (3). By Southall Bros & Barclay, Ltd., 19-21 Lower Priory, Birmingham. B 403,738/739.

"Apitoze"; for food substances (42). By F. W. Hampshire & Co., Ltd., Riverside Works, Full Street, Derby. 403,196.

"Urasit"; for perfumery, etc. (48). By H. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London, W. 3. 403,985.

(From "The Trade-marks Journal," July 21, 1920.)

"Kilbits"; for chemicals (2). By Berner & Zetterström, 54 Drottninggatan, Göteborg, Sweden. 402,382.

"Univol"; for disinfectants (2). By The Universal Oil Co., Ltd., Oak Road, Newland, Hull. 403,648.

"Expusto Brand Ointment"; for an ointment (3). By W. F. J. Aldridge, 12 Mayhall Road, Copnor, Portsmouth. 404,105.

"Sudha Samudra Tropical Fever Mixture" with foreig characters and symbolic device; for a medicine (3 By M. C. Ghose & Sons, 9 Jorapokur Square Lan Simla, P.O., Calcutta. 393,810. (Associated.)

"Pepsated Aspirin" ("Aspirin" disclaimed); for a col and neuralgia medicine (3). By Klor-Early Co., Inc Preston Street, Bluefield, West Virginia, U.S.A 397,381.

"Well and Fair Children's Teething Tablets," with devic of baby holding packet (device disclaimed); for med cated teething tablets (3). By H. Davies, High Stree Glynneath, Glam. 402,694.

"Tortoiseshell"; for medicinal chemicals (3). By Boo Pure Drug Co., Ltd., 37 Station Street, Nottinghan 401,247.

"Seven Spas Soap (Anti-Rheumatic)," with device of snak forming letter "S" and flag bearing letters "S S S" for anti-rheumatic soap (3). By T. P. Owen, 83 Esmon Road, Bedford Park, London, W. 4. 401,464.

"Bell-ans," with device of bottle of tablets, glass an spoon; for all goods (3). By Bell & Co., Inc., Orang burg, Rockland, U.S.A. 402,690. (Associated.)

"Anthroleum"; for all goods (3). By John Bell, Hills Lucas, Ltd., 14 Tower Bridge Road, London, S.E. 403,223.

"Capulva"; for medicines (3). By J. W. Mawson & Co Ltd., 142 Norwood Road, West Norwood, S.E. 2 403,305.

"Citon"; for medicinal chemicals (3). By M. Bloc 30 Ludgate Hill, London, E.C. 4. 403,307.

"Bema"; for a rheumatism medicine (3). By V. Foste 106 Duke Street, Barrow. 403,640.

"Eubiase"; for medicinal chemicals (3). By P. Lahay 5 Rue Maraine, Havre, France. 403,924.

"Lectona"; for infants' foods, etc. (42). By Lecithi Ltd., 1 Queen Victoria Street, London, E.C. 4. 399,79 (Associated.)

"Palmolive"; for soap (47) and for toilet articles (48 By The Palmolive Co., Corner of Fourth and Fowle Streets, Milwaukee, Wisconsin, U.S.A. B 402,991/992.

"Brillare"; for a hair preparation (48). By E. W. Sleat & Co., Tenerife Street, Manchester. B 402,704.

(From "The Trade-marks Journal," July 28, 1920.)

"Toscat"; for chemicals (1 and 2) and for medicina chemicals (3). By the Old Strand Chemical an Trading Co., Ltd., Audrey House, Ely Place, London E.C. 1. 400,514. 400,591/592. (Associated.)

"Atishu Brand a Nasal Remedy"; for a nasal-catarrl medicine (3). By J. Richardson & Co. (Leicester), Ltd. 10 Friar Lane, Leicester. 400,830.

"Bismag"; for medicines (3). By Bismag, Ltd., 7 Wyber Street, Munster Square, London, N.W. 1. B 405,021.

"Wonder Worker" over monogram "W W" ("Wonde Worker" disclaimed); for a curative contrivance (11) By F. A. Werner, Coventry House, South Place London, E.C. 2. 403,695.

"Formosul"; for bleaching powders (47). By Brotherto & Co., Ltd., City Chambers, Infirmary Street, Leeds 404,147.

"Carso"; for a hair tonic (48). By Sarah Miller 25 Regent's Square, King's Cross, London, W.C. 1 400,236.

"Medru" forming half-circle; for perfumery, etc. (48). By E. G. Cripps, 18 Kensington Court Place, London, W. 8 402,121.

"Wrinkola"; for a toilet cream (48). By the Nesyob Co. 81 Chancery Lane, London, W.C. 2. 403,143.

"Doushka"; for perfumery, etc. (48). By S. Dykwel 22 South Molton Street, London, W. 1. 403,200.

"Lindora" and "Nuancia"; for hair preparations (48) By F. C. Van Duzer, 114-16 Southampton Row, Lon don, W.C. 1. 403,315/6.

"Athla"; for all goods (48). By H. C. Stafford, 12A Col ville Square, Bayswater, London, W. 11. 403,523.

(From "The Trade-marks Journal," August 4, 1920.)

"Umo"; for a fertiliser (2). By G. W. S. Brewer, Amberley, Jaycroft Road, Burnham-on-Sea, Somerset 403,337.

"Bonopto"; for a medicated eye preparation (3). By Valmas Drug Co. Inc., 77 South Avenue, Rochester, U.S.A. 402,756.

"Calide"; for medicinal chemicals (3). By R. W. Debenham, 12 Leeside Crescent, Hendon, Middlesex. 403,264.

"Fruju"; for mineral waters, etc. (44). By J. E. Garratt, 96 Southwark Street, London, S.E. 1. 403,868. (Associated.)

Trade Report.

42 Cannon Street, E.C. 4, Aug. 12.

o material improvement in business has taken place, d none is looked for until the Russo-Polish problem s been satisfactorily disposed of. In spite of the de- ession, however, the price of Mincing Lane produce nerally is well maintained, and several items have risen value. These include white pepper, cloves, nutmegs, r anise oil, isinglass, albumen, egg products, Japanese ina, dill and fenugreek seeds, nux vomica, and lycopo- um. Ergot is lower on the spot, but to arrive, prices e higher and very irregular. Senega is offered at lower es to arrive, and there is now little room for a further cline. Menthol is steady in spite of the unusually large cks which are off the market *pro tem.* Canary-seed d glucose are easier. Pharmaceutical chemicals con ue depressed owing to the absence of adequate demand. caine, tannic and gallic acids are easier. Formaldehyde d copper sulphate are also cheaper. Citric and tartaric ds and cream of tartar are all as last week, but demand quite retail.

Higher	Firmer	Easier	Lower
umen se, star, oil -seed ot (c.i.f.) ina (Jp.) ugreek-seed n yolk glass x vomica per, white atinum	Camphor (Jp. ref. slabs) Cedarwood oil Clove oil Dill oil, (English) Eucalyptus oil Lycopodium Nutmegs Pimento oil Wintergreen oil	Bergamot oil Cananga oil Canary-seed Copper sulphate Gallic acid Glucose Orange oil Petitgrain oil (Parag.) Tannic acid	Cocaine hydrochlor. Ergot (spot) Formaldehyde Orange oil Patchouli oil (forward) Rosemary oil (Sp.) Senega Sugar (licensed "free") Turpentine

Cablegram.

New York, August 10. Business is quiet. Menthol advanced 75c. to $7.00 per lb. Oregon fir balsam is er at $1.85 per American gallon. Short buchu has anced to $3.65. Senega is lower at $1.05, quicksilver declined to $85.00, and antipyrin (phenazone) to $4.30. illin is cheaper at 90c. per oz.

Albumen is again dearer, with spot sales of prime inese hen egg at from 4*s.* 8*d.* to 5*s.* per lb., market on dnesday closing at 4*s.* 10½*d.* Sellers of August-October te 4*s.* 11*d.* per lb. c.i.f.

Almonds are tending cheaper, owing to the fact that d crops are reported from Majorca, Sicily, and Bari Spain.

Aloes.—Arrivals at the warehouse include 15 cases nzibar and 23 kegs East Indian aloes.

Amidopyrin can be had at 47*s.* 6*d.* per lb.

Anise is steady at 86*s.* per cwt. for Russian and 6*d.* to 92*s.* 6*d.* for Spanish, according to quality.

Antimony.—Chinese crude is hardly mentioned, while general demand either for crude or regulus is life- . The former is nominally 42*l.* per ton, which seems h enough considering that foreign regulus is obtain- e at around 46*l.* c.i.f. to arrive. The price of home ned at 60*l.* and upward seems fictitious.

Arsenic.—The market appears firm, although demand ot active. The supply continues relatively light, and sists practically entirely of white Cornish, for which chief agents have lately again advanced their terms to ut 77*l.* delivered London. The price is rather in- ed compared with what it was before the war, but of production is, of course, much higher.

Balsams are quiet. *Tolu* can be had at from 6*s.* 3*d.* to 6*d.*, *Peru* at 26*s.*, and B.P. *Copaiba* at 4*s.* per lb., all .

Benzoin.—Recent arrivals at the drug-warehouse in- e 70 cases of Sumatra and 80 cases Palembang.

Bromides.—Potash shows rather more inquiry at from 3*d.* to 2*s.* 4*d.* per lb. for small lots of crystals. German es are somewhat higher this week. Sodium is obtain- at 3*s.*, and ammonium at 3*s.* 3*d.*

Camphor (Refined).—Sales of Japanese 2½ slabs have been made at 6*s.* 9*d.* to 7*s.*, closing with business at the higher price on Wednesday. August-September shipment is quoted at 6*s.* 9*d.* c.i.f. The exports from Japan during May amounted to 135,747 kin, valued at 741,610 yen. During the five months ended May 31 they were as follows:

To	1918 Kin	1919 Kin	1920 Kin
British India ...	271,809	13,681	245,304
Great Britain ...	63,743	42,563	235,514
France	17,027	48,813	23,965
United States ...	138,261	740,470	329,321
Australia	10,987	1,633	42,357
Other Countries ...	48,580	40,135	90,846
Kin	550,407	887,295	967,307
Yen	3,058,431	2,406,746	1,866,129

Canary-seed is easier at 145*s.* to 170*s.* per quarter for ordinary to good Morocco on the spot.

Caraway-seed is unchanged at 40*s.* per cwt. for good Dutch and 22*s.* 6*d.* for stalky African.

Castor Oil continues easy. French medicinal, in barrels, is selling at 106*s.* per cwt. English pharmaceutical is quoted at 79*s.*, first pressing at 74*s.* and second pressing at 69*s.* in barrels, ex mills, Hull.

Chloral Hydrate is unaltered, duty-paid crystals offering at 7*s.* 3*d.* per lb.

Civet.—A small lot of prime quality is offered at 22*s.* 6*d.* per oz.

Cloves.—After the close of our last report fair Zanzibar further advanced, closing with sales at 1*s.* 7*d.* per lb. on the spot; this week there has been a slight reaction, sellers quoting 1*s.* 6*d.* October-December delivery has been sold at 1*s.* 5*d.* Small sales of Penang have been made at reasonable prices compared with those ruling a few weeks ago.

Cocaine is easier, with hydrochloride offering at about 31*s.* per oz. on the spot, and at slightly less to come forward. Some of the German make offered is poor in colour.

Cod-liver Oil.—Finest new Norwegian medicinal oil is quoted at from 310*s.* to 320*s.* per barrel ex wharf London and prompt shipment at 290*s.* to 295*s.* c.i.f.

Copper Sulphate.—There is keen competition, with some makers willing to take orders down to about 40*l.* per ton, and even less, f.o.b. Liverpool, in casks, less 5 per cent. The market is nominal, however. The export demand is sluggish. Metallic copper has of late been lifted appreciably in value, but copper-sulphate has moved precisely in the opposite direction, and it is obvious that there is very little profit to makers under present conditions.

Coriander-seed sells slowly at 16*s.* 6*d.* per cwt. for sound Morocco.

Cumin-seed is quiet at 35*s.* to 40*s.* per cwt. for ordinary to good sifted Morocco.

Damiana-leaves are offered at 1*s.* 1*d.* per lb. on the spot.

Dill-seed is dearer, with holders asking 20*s.* per cwt.

Dragon's-blood.—Arrivals at the warehouse include ten cases of reboiled.

Egg Products are firmer on the week, sellers quoting Chinese hen yolk at 85*s.* to 90*s.* per cwt., and for August-October shipment 110*s.* to 112*s.* 6*d.* c.i.f. is asked for new. Dried yolk is 10*d.* per lb. spot; sprayed whole-egg, 1*s.* 10*d.*; and native dried whole, 1*s.* spot.

Ergot.—The prices for shipment from Spain are irregular, but dearer, there being offers at from 16*s.* 6*d.* up to 20*s.* per lb. c.i.f. London. Sales of new-crop Spanish just arrived have been made at from 19*s.* 6*d.* to 21*s.* 6*d.* per lb. on the spot. The *Vard* has brought 23 cases to London from Oporto.

According to the U.S. Consul at Vigo the yield of Spanish ergot in 1919 was exceptionally large, amounting to 87 metric tons, compared with only 6 tons in 1918 and 30 tons in 1917. Nevertheless, stocks are very small, due to large exports to Great Britain and the United States. Prices are consequently very high, and to-day (June 18) ergot is being sold as high as 65 pesetas (present exchange value of peseta about $0.16½) per kilo., or about $4.75 per lb. f.o.b. Vigo.

Farina.—Japanese is dearer, with spot sales of No. 1 quality at from 31*s*. 6*d*. to 33*s*. per cwt.; sales to arrive include September-November shipment at 31*s*. c.i.f.

Fennel-seed is slow of sale at 33*s*. to 34*s*. per cwt.

Fenugreek-seed is dearer, 13*s*. per cwt. having been paid for fair Morocco on the spot, and sellers are now holding for 13*s*. 6*d*.; the quotation for shipment is 14*s*. c.i.f. terms.

Formaldehyde is rather cheaper, spot parcels of 40-per cent. offering at 330*s*. down to 320*s*. per cwt. for quantity. These prices are below the cost to import from the United States.

Gallic Acid.—Pure crystals can be had at the easier rate of 7*s*. 6*d*. per lb.

Glucose is easier, American liquid offering at 57*s*. 6*d*. per cwt., duty paid.

Guaiacol Carbonate is offered at from 25*s*. to 26*s*. per lb.

Insect-flowers.—Dalmatian are offered at 350*s*. per cwt., but the prospects point to lower prices later.

Ipecacuanha.—Arrivals at the drug-warehouse include 59 bales of Matto Grosso.

Juniper-berries.—Fair Italian offer at 24*s*. per cwt. on the spot.

Lead-products are unsettled, chiefly because of the numerous fluctuations in the price of pig-lead. In the latter part of last week there was a further advance of 25*s*. per ton in red lead and litharge to 60*l*. 10*s*. for lots of five tons and over, and to 62*l*. for less than five tons, this applying to the home trade as well as export. A similar rise was enforced for ground white lead in oil for export to 74*l*. 15*s*. The market for raw material having once again dropped materially, renewed concessions in above products are expected. The demand for white lead has slackened for the present, while American parcels are waiting here for disposal in dealers' hands. The backward state of the home building trades is against a freer use of white lead, although there is still a good deal of material to be exported against old contracts.

Linseed Oil.—The trade demand for spot and near-at-hand oil has been more active, and as crushers have not much stock to spare, this has contributed to the greater firmness of the market, although speculation in forward positions is reported to have been more subdued. The outlook in regard to the seed is becoming interesting. On the one hand, there has been active American competitive buying for Argentine seed, which may eventually lead to as much as 50 per cent. of the Argentine crop this season being absorbed by America alone; but an exceptionally big Indian crop is assured this year, the bulk of which should be coming this side. There is thus no anxiety as to seed supplies, and the output of crushers will probably be maintained at a more or less progressive rate over the balance of the year. The spot price of oil closed at 80*l*., and Hull at 78*l*. per ton naked.

Lycopodium has a firmer tendency at from 14*s*. to 14*s*. 6*d*. per lb. as to seller.

Menthol is steady, with spot sales of Kobayashi-Suzuki at 34*s*. to 35*s*., and afloat is quoted at 32*s*. c.i.f. The exports from Japan during May amounted to 11,844 kin, valued at 259,635 yen. During the five months ended May 31 they were as follows:

	1918	1919	1920
Kin	127,571	113,666	148,466
Yen	752,113	1,068,896	3,258,334

Nutmegs.—Singapore and Penang are firmer, with more inquiry recently. Singapore 110's have been sold at 1*s*., 80's 1*s*. 1*d*. to 1*s*. 2*d*., and 65's at 1*s*. 6*d*. per lb.

Nux Vomica is dearer and scarce on spot at from 80*s*. to 85*s*. per cwt. For October-December shipment new crop Madras is quoted at prohibitive prices.

Olive Oil.—Edible French is substantially unchanged at 23*s*. per gal., Spanish at 21*s*. 6*d*., and oil suitable for pharmaceutical purposes at 20*s*. 6*d*.

Opium.—The London market remains unaltered, with practically no business passing.

Smyrna, July 17.—The sales this week amount to 35 cases, manufacturing druggists' at 19*s*. to 20*s*. per lb. c.i.f., as to quality. The exchange is piasters 410 per pound sterling for cheque, and $0.97 for one Turkish paper pound. The arrivals are 28 cases, against 75 at same date last year.

Smyrna, July 24.—The sales this week amount to 12 cases, at 20*s*. 6*d*. for extra selected manufacturing and 19*s*. for lower grades. The exchange to-day is piasters 420 per pound sterling for cheque on London, and $0.92 for one Turkish pound. The arrivals are 28 cases, against 115 at same date last year.

Orris is neglected, fair Florentine sorts offering at 80*s*. per cwt. on the spot.

Pepper is steady, with spot sales of fair black Singapore at 6⅛*d*. per lb., and August-October at 6⅜*d*. c.i.f. Lampong is 6¾*d*., Tellicherry 8*d*., and Alleppy 7*d*. per lb., all spot. Little improvement in the price of black pepper is looked for until the present heavy stocks are reduced. *White* is dearer, and has sold freely of late, including Muntok at 1*s*. 0½*d*. to 1*s*. 1*d*. spot, August-October shipment, at 11⅞*d*. to 1*s*. 0⅜*d*. c.i.f., and September-November at 1*s*. per lb. c.i.f. Singapore on the spot has been sold at 1*s*. to 1*s*. 0¼*d*.

Phenacetin is offered at about 14*s*. 6*d*. per lb. on the spot, and 14*s*. c.i.f. to arrive.

Phenazone is offered at about 20*s*. per lb., but in several instances this price could be shaded.

Pimento is quiet, with spot sellers at 4*d*. per lb.

Platinum.—In the latter part of last week the price was advanced considerably, ranging from 25*l*. to 26*l*. per oz. The demand became more active, but it is rather speculative. Palladium is firmer, in sympathy, at about 25*l*. per oz.

Potash Iodide.—The exports from Japan during May amounted to 1,894 kin, valued at 15,642 yen. During the five months ended May 31 they were as follows:

	1918	1919	1920
Kin	86,917	44,399	90 089
Yen	534,002	289,907	80,405

Of *crude iodine* 8,026 kin, valued at 49,921 yen, were exported during May, and the exports for the five months ended May 31 were:

	1918	1919	1920
Kin	37,165	12,402	9,556
Yen	220,584	78,074	66,040

Quicksilver is unaltered. Spanish is held for 21*l*. per bottle, but Italian is obtainable at 20*l*. to 20*l*. 10*s*. The position is dealt with in our editorial columns.

Sarsaparilla.—Arrivals at the drug-warehouse include 70 bales grey Jamaica.

Sassafras-park is offered at 3*s*. 3*d*. per lb. on the spot.

Senega on the spot can be had at 9*s*. per lb., and new crop for August-September shipment is quoted at 6*s*. 6*d*. c.i.f. As regards new crop good reports continue to be received, and the price is steadily declining (says a New York circular, dated July 22), although it has now reached a figure commanding interest on the part of buyers.

Shellac has been steady, with small spot sales of usual standard TN Orange quality at 675*s*. per cwt.; fine Orange is 900*s*.; fine seconds, 800*s*.; pure button, 850*s*.; cakey AC Garnet is 580*s*., GAL 550*s*., and IG 530*s*. per cwt. Futures showed little change on balance, the sales, including August at 640*s*. to 650*s*., and October at from 570*s*. to 595*s*.

Silver Nitrate.—The prices for crystals based on a metal price of 58⅜*d*. are as follows: In quantities of 50 oz., 3*s*. 5¾*d*. per oz.; 100 oz., 3*s*. 5¼*d*.; 250 oz., 3*s*. 4¾*d*.; 500 oz., 3*s*. 4½*d*.

Sugar.—The Royal Commission on the sugar supply has reduced, from August 9, the maximum "reasonable" price for all licensed "free" sugar sold to or resold by manufacturers from 145*s*. to 140*s*. per cwt., duty paid, ex store, less 1¼ per cent. discount. The figure is to remain in force until September 4, when the position will again be reviewed. The only article of food now rationed being sugar, the Food Controller has revoked the Rationing Order and all the directions issued under it. The extant clauses of the old Order are embodied in a brief new Order, the Sugar Rationing Order, 1920, which came into force on August 2. The weekly sugar ration to the public has been increased from 8 oz. to 12 oz. per person, and the retail price for domestic preserving only at 1*s*. 5½*d*.

per lb. The Food Controller has given instructions that on and after September 6 coloured sugars imported from the British West Indies or Demerara may be sold retail in excess of the authorised ration, to registered or unregistered customers, at prices not exceeding those authorised by the Royal Commission for the time being for free sugars. Coloured sugars of grocery quality, produced in refineries in Great Britain, will be treated on the same footing.

Tannic Acid.—In view of cheaper gall's, B.P. leviss quality is easier at about 8*s*. 6*d*. per lb., and slightly less for quantity.

Taraxacum.—English is scarce, and practically unobtainable on the spot.

Tartaric Acid continues neglected at from 3*s*. 2*d*. to 3*s*. 3*d*. per lb.

Turpentine.—Very irregular conditions have been the rule, with a fair trade passing. The difference between spot delivery and forward positions has been reduced considerably of late, while the latter have been fairly well supported. The position is unsettled chiefly because of the erratic movements in the American exchange of sterling. Imports having remained so far on the light side, and the warehouse stocks are comparatively low, due to fairly large deliveries. The shipments from America should become more regular and more extensive a little later on. Continental competition continues to exert some influence, but the export demand in America is reported more active, and the market there lately has ruled firm. Spot (London) closes about 13*s*. lower on the week at 150*s*. per cwt

Vanillin has shown rather more demand, with sellers at from 64*s*. to 67*s*. 6*d*. per lb.

Essential Oils Market.

The general situation is very much as it has been during the last month or two. Some dealers report a slight improvement in certain lines, but it seems too early to report that the turning point has been reached. Star anise oil has been in fair demand at higher prices; cassia is steady, but lemongrass is very depressed. There appears to be no gingergrass in original pots on offer. American oils have slightly increased in price owing to the decline in the exchange rate. This applies to cedarwood, sassafras, and wintergreen oils. English dill and eucalyptus are slightly firmer. Sicilian oils are quiet; bergamot and orange are easier, although lemon is steady at previous prices. Supplies of patchouli are coming forward, and lower prices will be accepted. Spanish oils are difficult to report on. Rosemary and spike show considerable variation in prices, but the present tendency is lower in view of the fact that the demand lately appears to have been very slow.

Angelica is nominal at 100*s*. per lb. for spot.

Anise (Star) is dearer, with spot sales of "Red Ship" brand at 4*s*. 1½*d*. to 4*s*. 4*d*. per lb., and for August-September shipment 4*s*. 1*d*. to 4*s*. 3*d*. per lb. c.i.f. has been paid. Demand has recently shown an improvement, quite a good business having been done.

Bergamot is easier, with spot holders of 37-38 l.a. offering at 32*s*. 6*d*. to 34*s*. per lb. Forward prices appear to be higher. A report from Palermo dated August 5 states: Bergamot oil is slightly stronger as far as the local market is concerned, but the higher rates of exchange affect prices in foreign currency.

Bois de rose (Femelle) is quiet, and nominally 45*s*. to 50*s*. is about the price, although considerably less will be accepted in one direction for a small lot.

Cajuput.—There is very little demand, and 3*s*. 8*d*. per lb. is given as the spot price.

Calamus is unchanged at about 44*s*. per lb. for spot or to arrive.

Camphor.—Recent arrivals of Japanese essential have lately been mostly of low gravity oil. Spot prices range from 175*s*. to 185*s*. per cwt. for white; a fair number of inquiries are reported this week for brown, which is quoted at 145*s*. in cases. The exports from Japan during May amounted to 44,521 kin, valued at 23,200 yen. During the five months ended May 31 they were as follows:

	1918	1919	1920
Kin	300,616	196,695	1,069,361
Yen	59,552	51,019	500,207

Cananga is offered at 23*s*. per lb. c.i.f. On spot the price is given as 23*s*. to 24*s*., with sellers inclined to shade a little.

Cassia is firm; business has been done at 7*s*. 7½*d*. to 7*s*. 9*d*. per lb. for 80-85 c.a. on the spot.

Cedarwood is firmer following the decline in the American exchange rate, and dealers quote 3*s*. 9*d*. per lb. It is said that there is very little offered from America.

Chamomile.—Several inquiries are stated to have been made this week, but there is practically none available.

Cinnamon.—Ceylon leaf is unchanged on the spot at 10*d*. per oz., and to arrive 9¾*d*. c.i.f.

Citronella.—Ceylon is weak, with spot sellers quoting 3*s*. per lb. Java is nominal at 5*s*. 3*d*. to 5*s*. 6*d*. per lb. on spot. During the six months ended June 30 the amount of citronella oil exported from Ceylon reached a total of 546,866 lb. Last year for the same period the figures were 433,334 lb. The United States accounted for 305,624 lb., against 158,254 lb. in the corresponding period last year. The amount exported to the United Kingdom was 123,772 lb., and 1919 127,028 lb. The exports to France showed a considerable decrease—17,015 lb. against 100,412 lb. in January to June 1919. The following is a complete list of destinations and quantities (in lb.) for the period mentioned: U.K., 123,772; France, 17,015; Holland, 5,543; Italy, 9,076; West Australia, 4,461; South Australia, 6,004; Victoria, 27,553; New South Wales, 16,632; Queensland, 2,808; Canada, 4,801; Egypt, 2,395; Africa, 75; India, 7,658; China, 6,675; Japan, 6,774.

Clove varies from 14*s*. to 15*s*. per lb.; the latter price has been paid this week. One English distiller is taking no more orders until towards the end of the year.

Cubeb.—A fair demand is reported, sellers quoting 55*s*. to 57*s*. 6*d*. per lb., according to quantity.

Dill is slightly firmer for English, from 50*s*. to 52*s*. per lb. being quoted, according to seller.

Eucalyptus has been firmer of late, with sales of 70 to 75 per cent. at 2*s*. 7*d*. to 2*s*. 8*d*. per lb., but at these prices it cannot be replaced from Australia. Fair stocks exist on spot, but at current rates a loss is involved. The *Port Augusta* has brought 365 cases and 100 casks to London.

Geranium.—Algerian and Bourbon range from 40*s*. to 42*s*. per lb. for spot, according to quantity and seller, with some dealers willing to shade slightly.

Ginger.—Spot holders are quoting about 46*s*. per lb.

Juniper-berry — B.P. shows considerable irregularity, but the average figure appears to be about 16*s*. 6*d*. to 17*s*. per lb., with sellers on both sides of these quotations. Wood oil is unchanged at 5*s*. per lb.

Lemon is practically unchanged at previous quotations, the value on spot being given at from 6*s*. 6*d*. to 7*s*. per lb., according to seller. To arrive quotations are higher at 7*s*. to 7*s*. 6*d*. per lb. A report from Palermo dated July 21 states: Rates of foreign exchange have advanced considerably, and this had as usual a strengthening influence on the position. The advance of prices in Italian currency encouraged some shippers, and local business has consequently been fairly active. The position remains unsteady and with a tendency to speculation, consequently figures are frequently nominal.

Lemongrass.—Cochin is dull, with spot sellers at 9½*d*. to 10*d*. per oz., according to source. To arrive is quoted at 6*d*. to 7½*d*. c.i.f. London.

Mint.—Japanese dementholised is extremely quiet, sellers of Kobayashi-Suzuki quoting 8*s*. 9*d*. and for Yazawa 8*s* 3*d*. to 8*s*. 4½*d*. has been paid. The exports from Japan during May amounted to 54,473 kin, valued at 380,369 yen. During the five months ended May 31 they were as follows:

	1918	1919	1920
Kin	62,377	164,832	140,097
Yen	129,504	445,688	1,024,434

Writing in its issue of July 4, the Tokyo "Weekly Druggist" states that "Mint is one of the commodities which has been hard hit by the economic panic that has overtaken Japan. At one time the market soared to the extraordinary price of 4,500 yen per 100 lb. The panic that set in in April has affected mint in common with other commodities, and a complete demoralisation has overtaken the market. The price has now fallen to the neighbourhood of 2,000 yen per 100 lb. As the existing stock is estimated at 500,000 lb. the loss sustained by the holders of goods will amount to something like 10,000,000 yen."

Orange.—Calabrian sweet is easier, with spot sellers at 37*s*. 6*d*. and 33*s*. 10*d*. c.i.f. London. West Indian is also quoted easier at 32*s*. 6*d*. for spot.

Palmarosa.—There are sellers on spot at 24*s*. to 24*s*. 6*d*. per lb.

Patchouli is nominal at 90*s*. per lb., but there is very little being offered on spot. Importers are quoting from 30*s*. per lb. and upwards to come forward, and sales have been made at 77*s*. 6*d*., although it is said that no further business will be done at that figure.

Petitgrain.—Paraguayan on spot is offered about 28*s*. 6*d*. per lb., and landing 28*s*. For genuine French 45*s*. per lb. on the spot is quoted in one direction.

Pimento is steady at about 26*s.* per lb., and it is doubtful if there is much to be obtained at less.

Rosemary is lower. There appears to be very little demand, and importers of Spanish quote for consignments afloat 5*s.* 3*d.* per lb. For prompt shipment from 4*s.* 6*d.* to 5*s.* per lb. is quoted (drums free in the latter case), and an offer for a round lot could probably be met at less. On spot fair quantities can be obtained at 4*s.* 6*d.* to 4*s.* 11*d.* per lb.

Sassafras.—Natural American is somewhat scarce on the spot, limited supplies offering at 11*s.* 9*d.* per lb., at which price it would be difficult to replace on account of the unfavourable exchange.

Spike.—French oil is quoted variously at 14*s.* to 15*s.* per lb. With regard to Spanish the position is very uncertain. The distillation period is now on, and it is reported that distillers' ideas as to value are so much inflated that the financial help given by importers is likely to be withheld in some cases, as it may be impossible to dispose of the oil on the market at a reasonable profit. The cost of distillation and the price at which the mountains are rented for collection are, of course, high, and it is possible that, although a good crop of spike oil was expected, the output may show some falling off for the reasons just given, in which case competition on the part of consumers may force up the price. The present spot price varies from 11*s.* to 12*s.* 6*d.* per lb., according to seller. For prompt shipment about 9*s.* 3*d.* c.i.f. London packed in drums (drums free) would be accepted for new crop.

Thyme.—On the spot red thyme, 30 per cent. phenols, is quoted at 9*s.* 6*d.* to 10*s.* 6*d.* per lb., according to seller; 40 to 45 per cent., 11*s.* 3*d.*; and white, 30 to 35 per cent., 10*s.* 6*d.*

Vetivert.—Bourbon on spot is in the neighbourhood of 55*s.* per lb., but the forward position is lower, 50*s.* per lb. being quoted. There appears to be no Java oil offered.

Wintergreen is firmer at 42*s.* 6*d.* per lb. for American.

German Drug and Chemical Markets.

The opening remarks of the report of a leading Hamburg drug-house for the beginning of August have quite a political flavour, but they will bear reproduction. The report in question begins with a quotation from Schiller—"The curse of an evil deed is that it continues to create evil." This is followed up by the statement that Versailles has been a bad mother and the agreement arrived at in Spa an evil child, while a further birth awaits the Germans in Geneva. The chimneys of the Allies will be able to emit smoke, but whether the German hearths and fires will burn is an open question. But gigantic question marks raise themselves high above the daily round. War has been, and war is still in progress, and war is still to come. At least there should be the absolute certainty that Germany will not for some time to come participate in any future wars. But this does not imply that fighting among other peoples has been abolished, in spite of the erection of peace palaces and attempts at forming a League of Nations. It is to-day mere pedantry to think of war in terms of armed action. War is prosecuted with other weapons—with cunning and by means of imposed treaties of peace. Already a depreciation in the exchange foreshadows a dark future, and once more the cost of everything purchased abroad will rise in price, a contingency which should be avoided in the interest of the people. The amount of articles which Germany can export stands in no relation to the immense demand for imported goods. An appreciable improvement in the value of German money, enabling Germany to compete on an equal footing with other nations when purchasing goods abroad, is out of the question for some time to come. The principal national products, coal and potash, pass mostly into foreign hands, which are hostile to Germany. On the side of the Allies there is a tendency to gain a monopoly in the shape of industrial dictatorship, and to fight against all these complications implies a severe conflict, but which promises a most brilliant victory when it has been fought to a successful finish. In the drug and chemical trade there still continues a confused fight of prices and interests; prices are demoralised—there is no base for calculating the price for imported articles; in addition, there is the risk, the absence of any spirit of enterprise, stagnation in business, and reduced opportunities of exporting, but in spite of these facts many prices show an increase. The following quotations are made without engagement, on the understanding that they apply to sales of original packages; for breaking bulk extra charges will be made. Prices are in marks per kilo.:

Citric Acid has remained firm at m.110.

Salicylic Acid, after dropping to m.35, has increased to m.40, but is likely to advance still further, since this quotation is still far below factory cost.

Tartaric Acid.—While the number of orders is quite satisfactory the small amount in demand reflects the unwillingness to buy more than is wanted to meet urgent requirements. The price is m.57 for granular and powder and m.60 for crystals, which are particularly difficult to obtain.

Benzaldehyde, almost free from chlorine, has declined considerably to m.90, and can be supplied at m.85 for orders of at least 500 kg.

Benzoic Acid is obtainable at m.60 owing to compulsory selling by overstocked holders, but is likely to advance.

Sodium Benzoate is obtainable below factory cost price at m.45.

Chamomiles.—The very small harvest can scarcely satisfy the requirements of the German market, and there is no prospect of meeting any export orders. Last year's harvest of good quality, is quoted at m.26, gross for net, and this year's flowers not lower than m.36, gross for net.

Caffeine (Pure).—Stocks are very low, while there is a brisk demand from home as well as foreign buyers at m.800.

Caffeine sodio-benzoate and caffeine sodio-salicylate are m.500.

Cream of Tartar (99/100 per cent.).—Owing to the absence of any important transactions the price has further dropped to m.39.

Coumarin.—Manufacturers have reduced the price to m.450, while it is being offered in the market at m.425.

Acetic Acid (80 per cent.).—Several important transactions have taken place from which a rise in price might have been expected. Nevertheless, it is still being offered at m.13.50.

Glycerin is firm at m.29, as there are no supplies or offers forthcoming either from manufacturers or dealers.

Heliotropine has further declined to m.550, in spite of the shortage of supplies.

Menthol is in brisk demand in small quantities, which has had no effect upon its price of m.700.

Milk-sugar, after being unable to supply for a considerable period, is now offered at m.35.

Sodium Salicylate is very scarce at m.60, and no fresh supplies have come in.

Angelica-root is available in limited amounts at m.25.

Gentian has advanced to m.15.

Thymol has for a long time been unobtainable, but now it is perhaps possible to secure a few kilos. at m.1,200.

Vanillin shows an unmistakable firmness in view of decreased supplies from makers. The demand is exceedingly brisk.

Italian Drug and Chemical Markets in July.

The month of July, like June, was a very unsettled and difficult month for the Italian chemical, drug, and pharmaceutical industries. The reduction in the value of the shares of the different concerns, which during the preceding months had been very considerable, was continued during the month, and matters were complicated through political difficulties in the East. The rapid decline in the price of most chemicals, drugs, and medicinals, and the reduction in the value of the Italian exchange, continued throughout the month. An idea of the reduction in prices can be gathered from the following figures. These represent some of the prices quoted during July on the Milan market:

Pharmaceutical Products.—Salicylate of soda, from lire 4 to lire 38 per kilo.; yellow vaseline, from 1.5 to 1.4.50; white vaseline, from 1.8.50 to 1.8; best white vaseline, from 1.12 to 1.11.50; quinine sulphate, from 1.700 to 1.650; quinine hydrochlor., from 1.750 to 1.700; magnesia sulphate, from 1.95 to 1.90; crude carbolic acid, from 1.1.10 to 1.1.00; boric acid crystals, from 1.8.60 to 1.7.80; salicylic acid, from 1.33 to 1.30; naphthalene, from 1.1.75 to 1.1.70; castor oil, from 1.10 to 1.9.50.

Drugs, etc.—Mannite, from 1.36 to 1.34 per kilo.; Zanzibar cloves, from 1.16 to 1.13.50, chamomiles, from 1.13 to 1.12.50; ordinary glue, from 1.11 to 1.10; beeswax, from 1.9.75 to 1.9.50; Ceylon cinnamon (first quality), from 1.18 to 1.16.50.

Heavy Chemicals.—Carbonate of soda, 98-99 per cent., from 1.175 to 1.150; alum, from 1.220 to 1.215; borax, from 1.600 to 1.540; yellow prussiate of potash, from 1.2,200 to 1.2,000; cream of tartar, in crystals, from 1.2,500 to 1.2,100; chloride of ammonia, from 1.800 to 1.620; caustic soda 76/78, from 1.295 to 1.270; crystal soda, from 1.100 to 1.70; sulphate of soda crystals, from 1.65 to 1.40; sulphate of ammonia, from 1.140 to 1.90.

Surplus War Drugs.

The Ministry of Munitions has circulated to hospitals tenders for the purchase of surplus drugs and chemicals lying at the Army Veterinary Stores, Woolwich. Among the principal items are 1,100 lb. acetic acid, 900 lb. carbolic acid, 6,000 lb. lanoline, 2,400 lb. prepared lard, 4,100 lb. camphor flowers, 3,900 lb. camphor blocks, 1,120 lb. copper sulphate, 576 lb. powdered gentian, 804 lb. powdered liquorice, 700 lb. liq. ammon., 621 lb. liq. arsenicalis, 1,200 lb. powdered nux vomica, 4,150 pints nut oil, 5,700 pints oil

oil, 1,800 lb. oil of tar (ol. picis), 1,008 lb. pot. bicarb., 600 lb. pot. chlor., 2,016 lb. pot. nit., 710 lb. pot. permang., 2,016 lb. pulv. sinapis, 500 lb. soda bicarb., 2,128 lb. soda hyposulph. comml., 1,500 lb. sp. æther. nit., 2,500 lb. sp. ammon. arom., 1,512 lb. treacle, 600 lb. powdered ginger, and 2,350 lb. zinc oxide. The tender gives details of the packing and the minimum quantity that may be tendered for.

Italian Olive Crop.

Some concern is being expressed in Italy in consequence of the olive harvest this year being seriously threatened by the activity of the oil fly (*Mosca olearia*), particularly in Central and Southern Italy. Professor Berlese, director of the Stazione di Entomologia Agraria of Florence, states that the danger is very great, and it is necessary to urge the cultivators of olives to take special precautions against the evil. As a result of the experiments made in the past few years the professor asserts that the conviction has been gained that it is possible to protect the olive plants from damage by the fly by fumigation without incurring any risk of injury to the plants.

Cartagena Ipecacuanha.

While Cartagena ipecacuanha is found in varying quantities along all the streams of the Cartagena district of Colombia, the greater portion and the best quality comes down from the Sinú Valley, where the soil is peculiarly adapted to its growth. No attempts whatsoever have been made to cultivate the drug, and the United States Vice-Consul Fletcher is of the opinion that cultivation is unnecessary. In gathering the root the best stocks are retained, the poorer stocks and broken bits being thrown carelessly to one side, where they take root again. The drug is brought into the smaller towns of the Sinú Valley by the natives, where it is gathered for shipment to the seaport of Cartagena and thence exported. The natives employed in gathering balata and chicle frequently take advantage of their idle season to pull the roots. From the time the roots are turned in by the natives until they arrive in Cartagena the price doubles, high commissions, freight rates, and an export tax of 7 per cent. being added. Small amounts arrive at Cartagena during the entire year, but it is during December and January that the trade is most active. Exports from Cartagena during 1919 included 28,071 lb., valued at $58,167, for the United States; 1,883 lb., valued at $2,406, for Great Britain; and 1,269 lb., valued at $2,032, for France. During the first three months of 1920 the United States took 5,891 lb., valued at $12,874. Prices at Cartagena have more than doubled in the last ten years, being at that time $1.10 per lb., while to-day (June 18) they range from $2.20 to $2.45. At Monteria and other towns of the Sinú Valley it is said that the drug can be bought from the natives at prices ranging from $0.90 to $1.40 per lb.

A New Quinine Contract in Sight.

An apparently inspired statement issued in Batavia says that "the negotiations for the conclusion of a new quinine contract, on the expiration of the existing agreement, to be entered in exclusively with Dutch quinine manufacturers, are so far advanced that with the sole exception of two undertakings, whose production is so small as to be negligible, all Dutch undertakings have promised their co-operation except two, regarding whose adhesion there is still some doubt. Co-operation is also assured with the English group, which will arrange a separate contract."

The "Algemeen Landbouwweekblad voor Nederlandsch-Indie," in its number of June 14, in commenting on the above communication, remarks that it gives the impression that, apart from a negligible factor, the object aimed at has been attained, and that the cinchona planters are once more standing shoulder to shoulder in the new agreement. This impression, it states, is false. The old contract embraced all the planters, and included the entire cinchona production of Java. Now, however, instead of an association of all the producers, with one group of quinine manufacturers, the following three separate groups have formed:

(1) A group of Dutch planters who will contract with the Dutch manufacturers.

(2) A group of English undertakings who will contract with English manufacturers.

(3) A group of Dutch undertakings who will contract with Japanese manufacturers.

The appearance of Japan on the market as a purchaser of Java cinchona is a new factor, and this journal remarks that this fact is not mentioned in the above statement, in which the Japanese participation is merely alluded to under the mention of a few negligible undertakings. It regards the split among the planters as a grave mistake.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London

(July 19 to 26).

Oils, essential: Bay (W.I.), 14 cs.; bergamot (It.), 10 cs.; cade (Sp.), 3 cs.; cedarwood (U.S.), 1 cs.; citronella (Jv.), 5 drms.; cinnamon (Sp.), 8 brls.; cubeb (U.S.), 2 cs.; lavender (Sp.), 3 drms.; lemon, (Sic.) 5 pkgs., (It.) 126 cs.; lemongrass, (S'pore) 40 drms., (Cochin) 4 drms.; lime (W.I.), 72 cs. 41 pkgs. 3 drms.; mint (Jp.), 455 pkgs.; orange (It.), 7 cs.; petitgrain, (Holl.) 10 cs., (Parag.) 5 cs.; rosemary (Sp.), 5 drms.; turpentine, (Swe.) 66 brls. 35 cks., (U.S.) 2,512 brls.; vetivert (Holl.), 1 cs.; ylang-ylang (Fr.), 6 cs.

Oils, fixed: Castor (Jp.), 1,522 pkgs.; groundnut, (Jp.) 23,000 cs., (Fr.) 250 cs.; olive, (It.) 20 cks., (Fr.), 101 pkgs. 12 cs.; soya (Jp.), 42,800 cs.; tea (Ch.), 58 cks.; wood (Ch.), 1,300 cks.

Seeds: Anise (Ch.), 25 cs.; caraway (Holl.), 175 bgs.; lin, (Ch.) 4,800 bgs., (E.I.) 14,600 bgs.; mustard (N.Y.), 400 bgs.

Soy (Ch.), 550 cks.

Spices: Arrowroot (St. Vin.), 1,841 brls.; chillies (Fr.), 20 cs.; ginger (W.I.), 200 bgs.; mace and nutmegs (W.I.), 59 pkgs.; nutmegs (S.S.), 16 pkgs.; pepper (E.I.), 570 bgs.

Waxes: Bees' (E.Af.), 12 cs.; paraffin (E.I.), 2,384 bgs.

Liverpool

(July 19 to 26).

Chemical products, etc.:
Argol (It.), 134 cks.
Barytes (Antw.), 300 bgs.
Calc. nit. (Norw.), 2,900 cks.
Carbolic acid (Sydney), 40 drms.
Cream of tartar (Sp.), 124 brls.
Oxalic acid (Holl.), 20 cks.
Potash caustic (Holl.), 79 drms.
Potash muriate, (Holl.) 600 bgs., (Swe.) 900 kgs.
Saltpetre (E.I.), 1,000 bgs.
Soda chlorate (Fr.), 100 cks.
Sulphur (It.), 54 brls.
Tartar (Fr.), 162 bgs.
Zinc oxide (Antw.), 20 brls.

Drugs, crude, etc.: Roots (Braz.), 42 bgs.
Balsams, (Colon) 10 cs., (Braz.) 19 cs.
Calumba (E.I.), 1,648 bgs.
Cod-liver oil (Norw.), 26 brls.
Galls (Ch.), 160 cs.
Gentian (It.), 49 bgs.
Ipecacuanha (Monte Vid.), 58 bls.
Kola (W.Af.), 36 bgs.
Liquorice-paste (Sic.), 33 cs.
Liquorice-root (Sic.), 10 bgs. 100 bdls.
Sarsaparilla, (Jam.) 12 bls., (Colon) 50 bls.

Gums, resins, etc.: Acacia (E.I.), 58 bgs.; gambier (Jp.), 680 bgs.

Oils, essential: (Sp.) 2 drms.; lemon (Sic.), 41 cs. 16 bxs.

Oils, fixed: Groundnut (Jp.), 6,000 cs. 225 brls.; olive, (Sp.) 85 brls., (Fr.) 282 cs.; palm (W.Af.), 3,668 cks.; tea Ch.), 600 cs.

Seeds: Canary (Sp.), 50 bgs.; cotton, (S. Amer.) 1,643 bgs., (E.I.) 3,265 bgs.; palm (W. Af.), 32,226 bgs.

Wax: Paraffin (E.I.), 320 bgs. 208 brls.

Hull

(July 17 to 24).

Formaldehyde (N.Y.), 139 brls.; seeds: castor (Port.), 136 bgs.; cotton (Alex.), 4,828 tons.

Manchester

(July 19).

Acetic acid (N.Y.), 388 brls.; antimony salts (Fr.), 14 cks.; emetic tartar (Fr.), 10 cks.; eucalyptus oil (Aust.), 200 cs.; Fellows' syrup (N.Y.), 240 cs.; formaldehyde (N.Y.), 200 brls.; oxalic acid (Holl.), 20 cks.; soda chlorate (Fr.), 100 cks.; wax, paraffin, (N.Y.), 764 bgs.

London

(July 28 to 31).

Chemical products, etc.:
Acetic acid (N.Y.), 74 brls.
Argol, (Fr.) 153 bgs., (Sp.) 100 cks.
Bromide soda (Trieste), 15 cs.
Bromine (Fr.), 300 cs.
Calc. tartrate (Sp.), 436 bgs.
Citric acid (It.), 260 brls.
Emetic tartar (N.Y.), 6 cks.
Lactic acid (U.S.), 78 brls.
Magnes. chlor. (Germ.), 28 brls.
Manganese dioxide (Swe.), 20 bgs.
Milk-sugar (N.Y.), 30 brls.
Saltpetre (Holl.), 200 bgs.
Soda caustic (Smyr.), 308 drms.
Soda phosph. (Antw.), 54 cks.
Tartar, (Fr.) 76 bgs., (Sp.) 27 cks. 725 bgs.
Tartaric acid (It.), 100 brls. 604 cks.

Drugs, crude, etc.: roots and seeds (Trieste), 44 pkgs.; leaves (Trieste), 40 bls.; medicines (Trieste), 23 bls.; herbs (Fr.), 15 bgs.
Aloes, (E.I.) 34 pkgs., (U.S.) 15 bls.
Cardamoms (Cey.), 60 pkgs.
Cinchona, (Holl.) 64 cs. 40 bls., (E.I.) 22 bls.
Ergot (Port.), 57 bgs.
Galls (E.I.), 20 bgs.
Gentian (Fr.), 58 bls.
Insect-flowers (Trieste), 35 bls.
Insect-powder (Trieste), 4 kgs.
Laurel-leaves (Smyr.), 100 bls.
Olibanum (E.I.), 75 cs.
Opium (Tky.), 13 cs.
Senna (E.I.), 200 bls.

Gums, resins, etc.: (P. Sudan), 1,141 bls.; copal, (Holl.) 120 bgs., (Belg.) 132 bgs.; karaya (E.I.), 250 bgs.; resin (Fr.), 200 brls. 1,163 cks.; tragacanth, (E.I.) 21 bgs., (Tky.) 9 cs.

Oils, essential: (Jp.) 55 cs., (Straits) 2 cs., (Parag.) 10 cs.; bergamot (It.), 40 cs.; bois de rose (Fr. Guiana), 14 drms.; citronella (Holl.), 1 drm.; juniper (It.), 1 cs.; lemon (It.), 220 cs.; orange (It.), 12 cs.; rose (Holl.), 2 cs.; rosemary, (Sp.) 2 drms., (It.) 1 drm.; sandalwood (E.I.), 50 cs.; turpentine, (Fr.) 400 brls. 87 cks., (Danz.) 57 brls.

Pimento (Belg.), 125 bgs.

Seeds: ajowan (E.I.), 421 bgs.; cotton (P. Sudan), 4,974 bgs.; lin (E.I.), 25,609 bgs.

Vanilla (Sydney), 275 cs.

Waxes: bees', (Trieste) 24 pkgs., (Port.) 57 pkgs.; paraffin (E.I.), 4,960 bgs. 142 brls.; (scale), 695 brls.

Hull

(July 26 to 28).

Barytes (Germ.), 440 cks.; cod-liver oil (Norw.), 121 brls.; cream of tartar (Fr.), 20 kgs.; eucalyptus oil (Aust.), 42 cs.; potash (Tasm.), 20 bgs.; resin, (Fr.) 100 cks., (Swe.) 140 brls.; sandalwood oil (Aust.), 10 cs.

What is a Sherry-glass?

Sir,—"Xrayser II.'s" observations on tablespoons (*C. & D.*, August 7, p. 63) lead me to invite his attention to some remarks in "The Lancet" last week with regard to a prescription which is going the rounds under the auspices of the Ministry of Pensions. It is the quinine mixture given in the *C. & D.*, July 31, p. 58, regarding the Tropical Diseases Clinics of the Ministry; but, instead of being written in Latin, as published in the *C. & D.*, the prescription is issued in plain English, with the nowadays unusual directions of "Half a sherry-glass full before breakfast every morning." The correspondent of "The Lancet" pointed out that sherry is no longer habitually drunk, and that a sherry-glass means nothing, especially to the class of men who form the bulk of the pensioners to whom the prescription is usually given. In view of the fact that most modern physicians prefer to order their medicines to be taken in "parts," rather than in domestic measures, it is remarkable to have a Government Department issuing a form of directions which has not even the advantage of being customary or sanctioned by long usage, such as the "tablespoon." I am in the country, and unable to turn up any references to the "sherry-glass," but I am sure your erudite contributor "Xrayser II." will be able to give us much interesting information about it from his remarkable fund of learning.

Yours faithfully,
M.D., L.P.S.I. (11/8.)

Proprietary Medicines Bill.

Sir,—In the account of the second reading of the Proprietary Medicines Bill in the House of Lords (*C. & D.*, August 7, p. 57), I see that the Parliamentary Secretary to the Ministry of Health in his speech made the mistake of putting the cart before the horse. He said that sufferers purchased medicines and appliances instead of going to medical men for treatment of serious disease, but the experience of retailers is that customers tell a long story of medical treatment without avail, and then decide afterwards to try the proprietary article in the hope of getting the relief that they have failed to secure from professional advice. The schedule of diseases at present included in the Bill is in reality a list of those complaints which medical science has so far not been able to cope with, but it does not follow that in the future a remedy will not be discovered as has been the case before, and frequently by people who have no medical qualification, as you have already pointed out. To stop independent research, as this Bill would inevitably do, would be a severe blow to the public, as well as to the doctors themselves, although possibly they would not admit it. The clause dealing with a register for proprietary medicines would be unworkable without an army of officials for examination and confirmation of ingredients, and also for clerical work; in one of the colonies there was a similar clause in the regulations dealing with pharmacies, prohibiting the sale of any remedy except those admitted and approved by the Board of Health, the wording being so comprehensive as to have included glycerin and blackcurrant lozenges if strictly interpreted. But actually it was never enforced, as the number of proprietary and non-proprietary remedies rendered the actual registration and the discrimination between two or more preparations for similar ailments impracticable, and although legally every time a pharmacist sold an ounce of lozenges without a prescription he was committing a technical offence, I never heard of the authorities instituting a prosecution, and the clause stood more as a warning to the unscrupulous than as a menace to legitimate business. I might point out, however, that under the same legislation no doctor was allowed to supply a patient with drugs, or to be interested in any firm supplying drugs or appliances.

Yours faithfully,
Registrate. (7/8.)

Prescription Pricing.

Sir,—I wish respectfully to protest against the recent reference in your replies to queries about prescription charges to the London Simplified System. If you would refer to the *C. & D.*, September 27 and October 18, 1919, I think you will find that this is the system suggested by me in a paper read before the Sheffield Pharmaceutical and Chemical Society on September 17, 1919, and which, after discussion and slight modification, was adopted here and in various parts of the country, evidently including the London Associations.

Yours, etc.,
19 Haymarket, Sheffield. H. B. Hammond.

The "Govnor" in Pharmacy.

Sir,—I am sure we are all grateful to "Scotus" (*C. & D.*, July 7, p. 79) for his information that the proposed salaries are not the maximum. The modest requirements of the Drug Union are to my mind absurd. The thing should be done properly, and I suggest the following additions:

The "Govnor" shall be merely a title, and shall entail no power to govern.

The staff shall be known as the "Board."

The "Board" shall entirely govern and control the business, and shall meet weekly during busy hours, the "Govnor" to attend to the business in the meantime.

Meetings of the Board after hours shall be timed as time and a-half, and paid for at the rate of 10*s.* per hour.

The "Govnor" shall be at business at least half an hour before opening to see that the shop is thoroughly swept and dusted before the arrival of the Board.

He shall also remain behind after closing to serve any late customer, which might inconvenience any members of the Board and cause them to miss their suburban service.

On no account shall he be absent between 12 and 12.30 A.M. lest any member or all members of the Board desire to purchase, say, a pair of bootlaces.

Should the hours of "Dora" opening be altered, these hours may be altered at the discretion of the Board.

In return for faithful service and his salary of 30*s.* weekly the "Govnor" shall be permitted one week's holiday per annum.

On no account shall he be permitted to leave the premises during business hours. Hair-cutting and shopping must be done during the dinner hour, which must not exceed sixty minutes.

The "Govnor" shall not enter into any negotiations for disposal of the business without the full consent of the Board.

No individual pharmacist shall be allowed to purchase the business; only companies being entertained with large capital, British or foreign.

The whole of the goodwill must be divided between the members of the Board. For this purpose the porter will not be considered a member of the Board.

In the "possible" event of the "Govnor" having to pay an early visit to the Official Receiver, the "Govnor" shall sign a declaration to the effect that though no books have been kept, each member of the Board has financial interests in the business to the minimum extent of 500*l.*, which shall have prior claim over all creditors.

The "Govnor" shall be permitted, should his circumstances permit, to smoke one cigarette per day.

Yours truly,
Anglo. (10/8.)

The Lure of the Orient.

Sir,—Referring to the letter in the *C. & D.*, June 5 (p. 91), by Mr. W. H. Saunders, I hope you will give equal prominence to another side of the matter. I am thirty-four years of age, F.S.M.C. and M.P.S., and went round the world before I was twenty-one. Since then I have done two years in Demerara and arrived in Penang last Christmas Eve in order to take up a four-year engagement at $300, $325, $325, and $400. I brought out my wife, British, with years of tropical experience, and we claim to be very far from raw "first-time-outers." We put in one month in Penang most comfortably, being entertained and treated most hospitably by a director of the company (also a chemist). I was paid in full for the voyage out. However, I found that living was pretty dear, and pointing out the fact to the directors when I was sent to take charge of the branch at which I am now, I was granted what I asked for—*i.e.*, an increase to $400 per month. We then set about housekeeping in a bungalow leased by the company, also furnished by them.

Up to this point please note that the treatment afforded us was such as very few businesses are capable of showing to any man sent out to them, married or single. The furnished bungalow would cost at least $100 per month if we had to rent it from any other owner. I could easily get $100 or $120 for it to-morrow, but cannot leave it, simply because there is no other accommodation of any kind or sort whatever available. We are now living with worse food than we have ever seen before, in poorer style than any other Europeans in the district. The minimum for a manager is considered to be $600 per month. The usual arrangement is about $500 or $600 per month, with car supplied, car allowance, free house, and one or two servants to keep that house up. This is a specimen of my monthly budget :

	$		$
Cook-boy	25	Rickshaws	15
Kebun	20	Daily market	60
Dhobi	10	Rent	65
Toti	2	Food bills	100
Firewood	10		
Lamp-oil	8		$315

I have only Kling servants, who are well known here to be the cheapest buyers, and I have perhaps the cheapest buyer in the district. If I had a Hylam cook and Hylam boy, as most Europeans have, my expenses would be $370 or $380. In regard to rickshaws, I walk down in the morning (one mile) and home in the evening, if not too absolutely done up by the heat. Now the agreement gives no leave whatever, so that after four years I have to pay my wife's passage back to England. Church means $1 for each of us and rickshaw. Cinema means $1.50 each and rickshaw. Dentists are so exorbitant that we dare not approach one. Annual holiday, a fortnight, is supposed to be granted, but as a sample of the hotels I will mention that $9.50 per diem for one person is the charge here. Motors cost $5.00 per hour, and the doctors charge $5.00 per visit. The price of clothing is simply scandalous, particularly for ladies. Yet all these things must come out of $85 per month. It means that when I get home at 5.30 P.M. we must sit in our compound every day in order to save enough in four years to go back home with the same funds which we had when we left. . . . Then take the service you get. From my own experience I challenge anyone to say where servants are more insolent, lazy, sickly, and inefficient. Much the same applies to the local assistants in the stores. The tambies have to be perpetually watched for theft, and both tambies and kranies (porters and clerks), whether Chinese or Eurasian, are frequently falling ill with fever or dysentery for three or four days at a time. The result is perpetual worry and strain on the European in charge. In my first two months here everyone in my house and shop, servants, kranies, tambies, wife and self, was sick, and there was not one day when one at least was not away from work. Of course, the one who cannot leave, whatever his temperature, is the manager. Socially we are taboo, because I cannot afford to belong to the club ($50 entrance), and cannot run a car. . . .

Yours faithfully,

Ipoh, F.M.S. DENYS BAILEY.

Retail Price-lists.

SIR,—On looking through the various retail price-lists I note that items such as borax, sulphur, salts, etc., are listed at 1*d.* per oz., and although this may represent a good ratio of profit on an ounce of the drug, it is very doubtful whether it now pays to sell such quantities. In pre-war days penny trade was looked on as paying well, besides being a cash transaction, and penny packed lines could be bought at an average rate of 5*s.* a gross; but now, with the increased cost of labels, boxes, paper, etc., this cannot be done, and such lines as can be bought already packed, like violet powder and fuller's earth, become twopenny boxes and cost about 15*s.* a gross. It follows, therefore, that penny lines can be no longer sold at a profit, and should be replaced by twopenny or threepenny packets, the only difficulty being the customer who demands "one ounce of borax." "A penny, please."

Yours faithfully,

PRE-WAR PEN'ORTH. (69/2.)

Legal Queries.

Salol (7/8), who holds a "full" wine licence, asks whether he can retail bottled cyder under his licence, or would he require a separate licence to enable him to do so? [A wine licence of any kind does not authorise the sale of cyder. It only allows the sale of wine and of what are known as "sweets"—that is, any liquor made from fruit and sugar or from fruit or sugar mixed with any other material and which has undergone a process of fermentation in the manufacture. To sell cyder by retail, "Salol" should hold either a publican's licence or a beer-retailer's licence or a cyder-retailer's licence.]

G. H. G. (10/8) lent a sum of money, in 1901, upon a mortgage of two semi-detached villas in a South Coast town. The rate of interest was originally 4 per cent., which was increased, in 1910, to 5 per cent. Is he entitled to increase the interest rate still further; and, if so, to whom should the notice be sent? [The rate of interest may be increased by 1 per cent., making the rate 6 per cent., and the notice should be sent to the mortgagor. If neither the rent nor the rateable value of either of the houses exceeded 52*l.*, then "G. H. G." can only increase the interest to 5½ per cent. at present, and to 6 per cent. after July 2, 1921.]

P. H. G. (30/7) is one of the executors of a will, and in that capacity has incurred considerable expense and devoted much of his time. His duties have involved travelling considerable distances, and during absences from home, in connection with the deceased's affairs, he has had to engage a *locum tenens.* He has also advanced sums of money in the interests of the widow of the testator. Is he entitled to charge against the estate his expenses and an executor's fee? [Unless the will expressly authorises him to do so, "P. H. G." is not permitted to charge for his time and trouble; but he is entitled to be paid, out of the estate, his actual out-of-pocket expenses.]

G. R. D. (30/7) asks whether amounts distributed to employés under a profit-sharing scheme are liable to pay excess profits duty. [In strictness, it depends upon the arrangement under which the payments are made. Ordinarily payments made to employés are trade expenses, and as such they may be deducted from his gross profits in arriving at the sum at which the employer is to be assessed for income-tax or excess profits duty. But in such a case the payments are made as wages or salaries. If an employé received some of the profits of the firm employing him, not as remuneration for work done by him, but as a person having an interest as shareholder, partner, or otherwise in the concern, the position would be different, and the amount paid him would be included in the profits assessed for excess profits duty. "G. R. D." might claim to make the deduction on sending in his return, and explain the position to the surveyor.]

J. B. (9/8) became tenant, in 1913, of premises consisting of a shop with living-rooms above, at a rent of 60*l.* a year, payable monthly, the landlord paying rates and taxes. Since December 1919 he has paid an increase of rent of 12*l.* a year on account of the higher rates. Two years ago he vacated the living-rooms and sub-let them. The "net rent" is 45*l.*, and the landlord claims to be entitled to increase this by 60 per cent., upon the ground that, "J. B." having ceased to reside there, the premises can be treated as trade premises. Is this contention correct? [We gather that the shop and dwelling-rooms were let together as one property, in which case we consider that they must be treated as a dwelling-house, and that the landlord is not entitled to increase the net rent by more than 40 per cent., together with an amount representing the advance in the current rates compared with those levied in August 1914. "J. B." is entitled to a month's notice of any increase of rent, in the prescribed form.]

J. H. P. (3/8) refers to a reply which we recently gave to a private chemist's manager that a concession was allowed by the Commissioners of Inland Revenue to some

demobilised soldiers, whereby the pay received while serving in the Army was taken into account in calculating the average of the three previous years, which is taken on assessing a trader for income-tax. He himself was demobilised in February 1919, after two years' service, and is now the manager of a branch establishment of a limited company. He has been assessed on his full income for the year ending April 5, 1920, and he asks if he cannot have the benefit of the concession. He can get no satisfactory reply from the local income-tax officials. [As a matter of strict law, this concession is not applicable in such a case. "J. H. P.," being in the employment of a registered company, is assessable under Schedule E, and assessments calculated on the average of the three previous years are only made under Schedule D. Those under Schedule E are always on the actual income of the year, subject to adjustment at the end of the year. As, however, the concession is a matter of grace, we think it might well be allowed, and we advise "J. H. P." to appeal on the subject to the Secretary (Taxes) Inland Revenue, Somerset House, London.]

W. G. B. (7/8) is the tenant of a combined shop and dwelling-house of which a new lease was granted to him in May last, the rent of 90*l.* being increased, by 50*l.*, to 140*l.* per annum. The landlord now claims that he is entitled to cancel the lease upon the ground that the rent is higher than that permitted by the new Increase of Rent Act. Does the Act give the landlord this right; and what is the maximum increase of rent which may be made? [The landlord is not entitled to cancel the lease, which is not in any way affected by the Act, except as regards the amount of rent payable in respect of the premises. In order to determine what increase of rent the landlord is permitted to make, it is necessary to ascertain the "net" rent; that is to say, the rent at which the premises were let on August 3, 1914, after deducting the rates, if they were paid by the landlord. The increases allowed are: 15 per cent. of the net rent, and a further 25 per cent. of the net rent if the landlord is responsible for the whole of the repairs. If "W. G. B." is responsible for part of the repairs the 25 per cent. increase will be correspondingly reduced. Increases of rent are also permissible in respect of structural improvements and advances in rates, if the rates are paid by the landlord. The landlord must give a month's notice of the increase in rent, in the prescribed form, showing exactly how the increase is calculated.]

J. M. (4/8) was engaged as assistant to a chemist who sold his business to a limited company. The company offered to retain "J. M.'s" services for a period of two months, terminating upon a specified date in September next. Is "J. M." entitled to a month's notice, either from the chemist or the company, before his engagement can be terminated? [As "J. M." has transferred his services from the chemist to the company for a *definite* period his engagement will terminate, without notice, at the end of the two months; and, provided his salary is paid up to that date, he will have no claim against either his original employer or the company. There is obviously no right to claim notice of dismissal when an engagement is for a fixed period, since it has been agreed beforehand when the contract of service is to come to an end.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Jacobus (22/7).—Hand-cleaning Paste.—The addition of a proportion of infusorial earth or other abrasive to your formula seems to us to be necessary. Although the paste is not intended for use in washing motorists' hands, a handkerchief or soft paper will be needed for wiping the hands.

M. R. D. (27/7).—Removing Tattoo-marks.—We have at various times published methods of removing tattoo-marks, which are more or less heroic and depend upon the removal of the upper layers of the skin within which the colour is confined.

Salicylic-acid Method: Make a mass, the consistency of dough, with salicylic acid and glycerin; apply to the marks, and confine with a compress and strips of plaster for from five to seven days. Then remove the layer of epidermis over the marks and apply salicylic acid and glycerin as before. It may be necessary to apply three times, but usually the second application removes the marks.

Tannin and Silver-nitrate Method: First apply a concentrated solution of tannin, then needle the parts tattooed. The needling can be done with the closely set needles employed by tattooers, so that some of the tannin finds its way into the tissues. Solid silver nitrate (ordinary caustic point in holder) is then rubbed in firmly. The concentrated solution of silver nitrate is allowed to act on the epidermis and derma for a few moments until the needled points stand out as black dots. The caustic solution is then wiped off. The tattooed parts become blackened by the formation of silver tannate in the superficial parts of the cutis. An eschar forms, which comes away in about two weeks and leaves a very superficial scar, which becomes scarcely visible.

Nitric-acid Method: Apply to the stain nitric acid with the stopper of the bottle or a glass rod. In a few minutes, when the cutis vera is penetrated and there is a crusted appearance, wash off with cold water. A few days after this treatment a scab forms which contains the tattoo-mark; remove it, and should inflammation supervene poultice and bathe with warm water. It should be noted that the scab begins to form on the second day, when the inflammation is subsiding. It is then advisable to cover with court-plaster until the scab forms completely; then poultice with boiled bread-and-milk until thoroughly clean, and dress with carbolic oil (1 in 20) or boric ointment. In this way the skin is not only removed almost painlessly, but any residuum of stain is decolorised.

Glycerol of Papain Method: Anæsthetise the washed and shaved part with ethyl-chloride spray and tattoo glycerol of papain into the coloured parts. Follow this with a dressing of glycerol of papain, antiseptic gauze, and adhesive plaster. Keep this on for three days without disturbing, remove the dressing, and cover with adhesive plaster. A scab forms, and when it drops off the marks have generally disappeared. The formula for *glycerol of papain* is as follows:

Papain	1 oz.
Hydrochloric acid	40 minims
Purified talc	120 grains
Glycerin	8 oz.
Water to	16 oz.

Mix the acid with 7 oz. of the water, add the papain, and dissolve by shaking. Mix the talc with the solution, and filter clear, washing the filter with water to 8 oz. To this add the glycerin, and mix.

Caustic-potash Method: Wash the part thoroughly with dilute acetic acid, and half an hour afterwards apply a solution of caustic potash 4 grains in water 1 oz. After the lapse of another half-hour neutralise with a solution of hydrochloric acid 1 dram, water 1 oz. Repeat this daily, and use stronger solutions if necessary.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Aug. 15, 1870.

Prussianism in 1870.

The absence of our French correspondent's letter will be noted. We regret to learn that this omission is occasioned by illness. In a note, dated August 11, he writes us from Paris that "the absolute cessation of trade here just now almost justified silence. Should the war eventually be carried on under the walls of Paris, I may be able to send you something interesting." Another Parisian correspondent, writing on the same date, says, "Business is bad here, but we have got over the worst of the local political excitement, by the formation of a new Ministry yesterday. If the Prussians can be kept at a respectful distance—and with the *levy en masse* now taking place I think they can—business will be something again. People feel better to-day.

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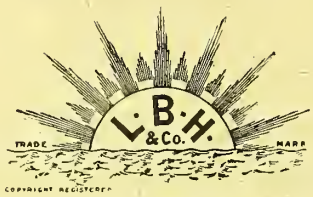

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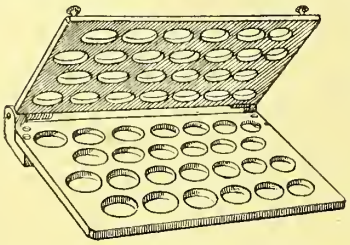

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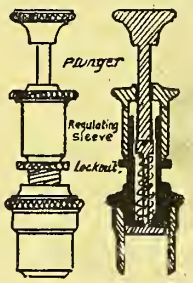

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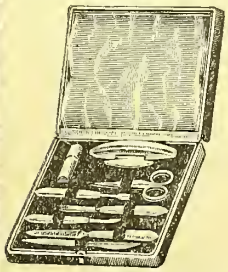

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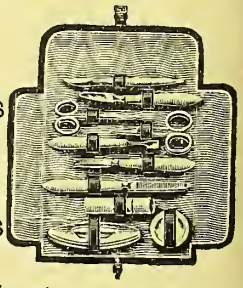

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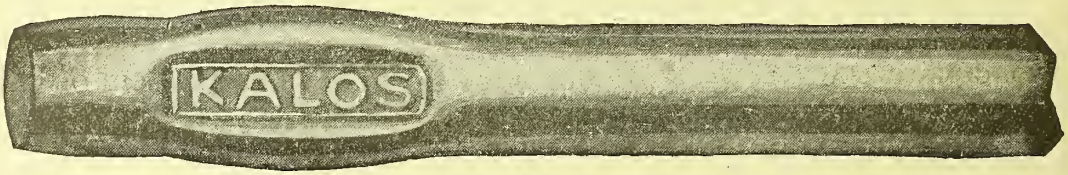

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Card Boxes ...	9/-	18/-	45/-	47/-

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Pulv. or Xtal. P.B.	4/3 ,,	Sodii Salicyl. P.B.	4/9 ,,
Cream of Tartar 99% P.B.	3/- ,,	Camomile Flowers	2/- lb.
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Magnes. Carb. Pond. P.B.	1/3 ,,	STICK JUICE,	
,, ,, Levis P.B.	1/- ,,	2 oz. STICKS, PURE	4/- ,,
Naphthaline Marbles, 9d lb. (28 lb. @ 8d.)		French Chalk Pulv.	3d. & 4d. ,,
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14-lb.	45/-	33/-	26/- ,,
100's boxes	9/-	7/-	6/-doz.
200's ,,	16/6	13/6	11/- ,,

Less **6d.** per doz. in gross lots.

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*Chloroform, pure, B.P., 12 8-lbs. @ 5/2 lb. 8 lbs. @ 5/4 lb.; 6 1-lb. bots. @ 5/10 lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 2/10 lb.; 10 lbs. @ 3/1 lb. [@ 48/6 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 48/- lb.; 1 lb.
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*„ Ammon. Aromat., 6 lbs. @ 1/3 lb.
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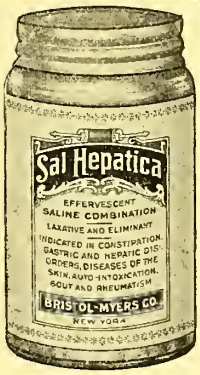

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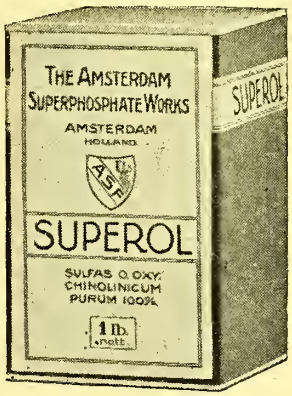

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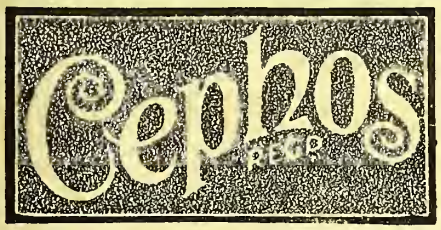

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NEUTRAL OILS, Debloomed and Undebloomed.
PALE & RED LUBRICATING OILS
CYLINDER OILS.

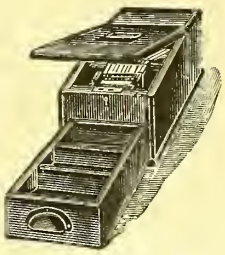
W. J. SMITH, *SOLE EUROPEAN REPRESENTATIVE.*

THE JAMES B. BERRY'S SONS CO. Inc.
110 Cannon Street, London, E.C.4.

THE IMPROVED

DUDLEY CASH TILL.

This Till, though so inexpensive in price, does the work just as efficiently as one costing double the price. It is made from well-seasoned wood, stained and polished to imitate richly coloured mahogany. Size: 18×9×7½". Lid fitted with lock and key. Recording paper 3⅝" wide. Automatically rings warning bell every time cash drawer is opened. Price, packed in wood case, **77/6** each.



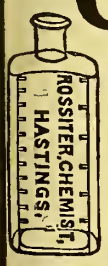
Sent on 14 days' trial on receipt of cash or two wholesale trade references.

Dudley Till Coils, **5/-** doz.

DUDLEY & CO., 451 Holloway Road, N. 7.
City Showrooms—25 Wood Street, Cheapside, E.C.2.

GLASS BOTTLES

WHOLESALE and EXPORT



Medical Flats { Best Quality, Quinine Tinted. Pale Tinted, 2nd Quality.
Panels ,, Pale Green.
Vials, White Flint. All sizes.
Poisons. Actinic Green, Blue or Amber.

SAMPLES AND PRICES UPON APPLICATION TO—

FARROW & CO., 87 Borough High Street, LONDON, S.E.1.
Telephone—HOP 3222.

OLIVES OILS

A SPECIALITY

EDIBLE
PHARMACEUTICAL
TECHNICAL

ROBINSON, THOMPSON & CO.
22 DENMAN STREET, LONDON, S.E. 1

Telegrams:
"Fundless, Boroh, London."

Telephone:
Hop 4307.

RUBY YELLOW GREEN

BRILLIANTINE OILS

Any Quantity—from Stock.
Wholesale Only.

WM. BORTHWICK
1 and 2 Staniforth Place, HULL.
Telephone—Hull Central 4054Y (Trunk only).

J·GREEN
GRADE J.G.
TRADE MARK
MADE IN ENGLAND BY J. GREEN
REGISTERED
SIZE CM
FILTER PAPER

"J. GREEN"
British Made
Filter Papers
CORRESPONDING TO THE GERMAN
Nos. 595, 597, 598, 602, 604, etc.
ALSO
Ashless Filters
to replace German and Swedish makes.
589 1.—589 2. 589 3.—207.
No. O—No. I F.
SOXHLET THIMBLES.
FOLDED FILTER CIRCLES, etc.

For Samples and Prices apply to any of the leading Laboratory Furnishers.

Makers—
J. BARCHAM GREEN & SON,
Hayle Mill, Maidstone, England.

"TOWER" EARTHENWARE FILTERS

Sizes from 1 Gallon to 10 Gallons.

Specially suitable for

ACIDS, ESSENCES, AND PHARMACEUTICAL PREPARATIONS.

"FARJAK" ASBESTOS FILTERING MEDIUMS

for use with the above—Pure and Neutral.

Filling, Corking, and Capsuling Machines.

FARROW & JACKSON, LTD.

ESTABLISHED 1798.

16 Great Tower St., LONDON, E.C. 3.

Make the Drummer your business mascot

"The Drummer leads the way to healthy bright surroundings."

This is what your customers are reading in our press announcements—and why not let him lead you to business success, too!

Give him a prominent position on the counter and in your window. Watch how steadily your profits account increases; then, "give him the lead." Hundreds of shopkeepers have been helped on the road to success—why not let him help you, too!

All colours of Drummer Dyes can now be supplied as follows: **Light Blue, Saxe Blue, Navy, Light Green, Dark Green, Emerald, Brown, Nigger Brown, Red, Cardinal, Maroon, Jazz Red, Daffodil, Heliotrope, Mauve, Black.**

DRUMMER DYES

A parcel of attractive advertising matter and full trade particulars will be sent to those who wish to further increase their business.

W. Edge & Sons Ltd., Bolton.

ADULTERATION OF OLIVE OIL

As the adulteration of OLIVE OIL with TEA-SEED OIL is very much on the increase, I beg to draw the attention of the Trade to the following test which, it is to be hoped, may put an end to this fraud—

Prepare a mixture of concentrated nitric acid, concentrated sulphuric acid and water, equal parts by weight. Of this mixture 10c.c. is well shaken in a test-tube with 10 c.c. of the oil to be analysed, and placed in boiling water for twenty minutes. Should any tea-seed oil be present the oil layer changes to a cherry-red colour. The colour varies with the amount and quality of tea-seed oil present, the crude oil gives a deeper colour. When cool, samples of pure olive oil solidify to a yellow, nearly white, mass, while the adulterated oil remains liquid or semi-solid, according to the amount of tea-seed oil present, having the characteristic colour.

When the tea-seed oil is less than 20 per cent. it is better to work on 50c.c. of oil and 30 c.c. of the acid mixture. I have tried this test on samples of pure olive oil from different sources, and in no case have I obtained a positive reaction, but other vegetable oils, such as cotton-seed, sesame, &c., give the same reaction as tea-seed oil, and should be looked for. As the majority of olive oils at present on the market are grossly adulterated with tea-seed oil, I hope that public analysts will take the matter in hand and put a stop to this fraudulent practice.

(*Signed*) JULES COFMAN-NICORESTI

The Analytical Laboratories, Apothecaries' Hall, Blackfriars, London, E.C. 4.

Reprint from "The Chemist and Druggist," March 20th, 1920, p. 73.

LEON FRENKEL

Olive Oil Importer,

10 Lime Street,

LONDON, E.C.3

LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

TRADE MARK

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ...	9/-	per doz.
" 2.	3¼ " " ...	14/6	"
" 3.	6½ " " ...	24/-	"
" 4.	12 " " ...	42/-	"

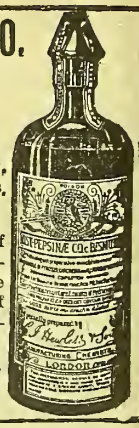
MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.



Introduced and Prepared only by C. J. HEWLETT & SON. Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co. Ld.

The Largest Makers in the United Kingdom

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C. 3.

VITMAR

The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers:

CALLARD & Co.

Food Specialists,

74 REGENT ST., LONDON, W.1

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, **2d.** each.

Wholesale Prices on application. Sample Box 1/6.

D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

HEALTH SALT *SUPERIOR QUALITY.*

4-oz. Decorated Tins.

1 Gross ...	78/-	5 Gross ...	77/-
2 " ...	77/6	10 " ...	76/6

Carriage paid.

W. FOX & SONS, Wholesale Botanic Druggists

CASTLE STREET, SHEFFIELD.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

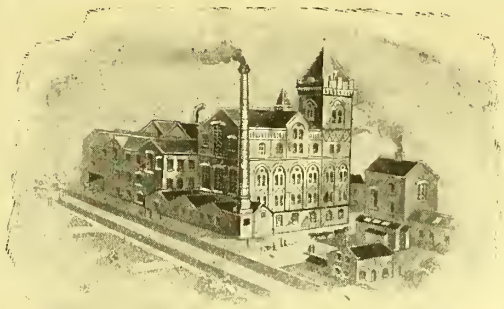
SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd., Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

"John  Bull"

(REGD.)

MALT EXTRACT

and

COD LIVER OIL

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

Extract of Malt

and

Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE

BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR
H. D. & C. T. TAYLOR

SPECIAL OFFER

Railway will not Store

GREASEPROOF PAPER

20×28—17-18 lb. **89/6** per cwt.
3 bales approximately 4 cwt. each.

Best Dutch Strawboard Corrugated Paper

10″×250′
180 rolls to clear, **6/5** per roll net, delivered free
50 rolls, **6/9** per roll
25 rolls, **7/3** per roll

ENGLISH KRAFT

1 ton, 36×45—60 lb. { To clear, **£67** per ton
1 ton, 36×45—70 lb. { half-ton **72/-** per cwt.
5 cwt., **75/-** per cwt.

PURE SCANDINAVIAN KRAFT

20×30—23 lb. 80 reams { **89/6** per cwt.
36×45—80 lb. 10 cwt. { to clear

The Guildhall Corrugated Paper Co.
Guildhall Buildings, Navigation Street,
BIRMINGHAM.

Telegraphic Address: "Corrucarb Birmingham." *Telephone:* Central 4291.

The Quenching Twins' message this week is :

"Get in on this proposition, Mr. Retailer. The terms below—and our ready sales—are convincing proof of the good turn we will do you and your business."

Quencholeen LEMONADE

"The Perfect Summer Drink."

For an outlay of £3 : 12 : 0
less 2½ % cash with order, your order would be 6 doz. cartons. These sell at 1/6 each, yielding £5 : 8 : 0, and showing a return of £1 : 17 : 10. This represents a profit of 52½ %.

For an outlay of £7 : 4 : 0
less 7½ % cash with order, your order would be **one gross** cartons. Selling at 1/6 per carton, this yields £10 : 16 : 0, and shows a return of £4 : 2 : 8. This represents a profit of 57½%

ORDER NOW—you will follow up with a second **soon**, *for QUENCHOLEEN sells at sight.*

Violiv Manufacturing Co.,
26 Haymarket Terrace, Edinburgh
Selling Agents for England, Ireland & Export:
PATTINSON & MACKIE, LIMITED
Albion House, 59 New Oxford Street, London, W.C.1
V25 NorA

LOSALL'S SALT

SELLS FREELY & READILY
PAYS 50% ON OUTLAY

An Infallible Remedy for **GOUT, RHEUMATISM, ECZEMA,** and **SKIN AFFECTIONS.**

	P.A.T.A.	Doz. Net.
4-oz. tins	1/-	8/-
8-oz. tins	1/10	15/-
Bottles	2/6	20/-

The only line of its kind on the market

SOLD EVERYWHERE.

Manufactured by
LOFTHOUSE & SALTMER, Ltd. HULL

CARTWRIGHT'S LEMON SQUASH POWDER

3d. *packets.*

A wonderful seller packed in waterproof boxes. The powder contains a Terpeneless Lemon and the necessary sugar. One packet makes one pint. Good window bills with all orders.

1 gross 22/- per gross.
5 „ 21/- „ „

W. B. CARTWRIGHT, Ltd.,
Makers of Pharmacy Specialties,
RAWDON, *near* LEEDS.

Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

STRENGTH 17°

James V. Oldham

19 St. Dunstan's Hill, London, E.C.3.

Telephone · Avenue 3013.

MASON'S EXTRACT OF HERBS

can be made up successfully with Treacle.

Please apply for supply of descriptive bills for distribution or counter use, to

Newball & Mason
NOTTINGHAM.

FAWCETT'S Natural Process BARLEY

Purely Barley, and purely British, not a patent or chemically-treated food. Recommended for delicate digestions at all ages. Sells on sight.

UNRESTRICTED DISTRIBUTION.

Yorkshire Pearl Barley Mills Ltd.
CASTLEFORD

ACETIC ACID

Made in Canada. Highest Quality.

GLACIAL - 98/100 %
80 % pure edible

GLACIAL PURE 99/100 %
80 % technical

Rates quoted to any port in the world by Shawinigan Ltd., 1 Tudor Street, E.C.4, Suppliers of Calcium Carbide for Cutting, Welding, etc.

Telephone: City 3331

For supplies of Acetic Acid in the United Kingdom, write to the distributors—

A. Boake, Roberts & Co., Ltd.
STRATFORD

Stocks held in London and Liverpool

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK
Lightest and Whitest, also Purest Dense
Aug. Levermore & Co., Ltd. 8-10 Gt. St. Helens, LONDON, E.C.3.
Telegrams: "Levermore London." Telephone: Central 4613

RUBBER GOODS ALL KINDS
SPRAYS, SPONGES, ETC.
Price List on Application.
GEORGE SPYER & CO.
33 Camomile Street - - LONDON, E.C.3
Phone: Avenue 6382.

For GUARANTEED
ATOMIZERS and SPRAYS
THE DEVILBISS CO., LIMITED
71 NEWMAN STREET, LONDON, W.1.

PROTECTS from all weathers, preserves the COMPLEXION
MOKOL SOFTENS ROUGH HANDS FACE CREAM FOR THE SKIN **MOKOL**
Reg. INDISPENSABLE IN THE HOME Reg.
For LIBERAL Wholesale Terms write to—
THE MOKOL CO., 98 Hatton Garden, London, E.C.

YOUR SALES LETTERS
Profitable sales letters which will create you new business are my speciality—results I have obtained for others can be yours also. I work on scientific principles applied to individual needs, with your goods on my desk. My services are free for a limited number of clients—take advantage of my ability now.
A. V. HYDE, 28 MONUMENT STREET, E.C.3.

Doomo Airship Fly Band
Write for quotations.
A wide, long band, sticky on both sides.
SMITH & CO.,
Doomo Works, Newark

WHITEPHILL The Best and Cheapest White Dense and Filler
Especially suitable for Dental Creams, Powders, etc.
Prices and samples on application.
THE WHITEPHILL CO., St. Austell

SHADEINE
FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 10½d. 1/4 size, per post 1/7; 2/6 size, per post 2/9; 3/9 size, per post 4/3; 8d. size 6/- doz.; 1/4 size 12/- doz., 2/6 size 24/- doz. 3/9 size, 36/- doz.
THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

CACHETS "FINOT"
(White or Coloured).
With Inscriptions in any desired tint: also Plain or Embossed.
"A distinction all their own."—*C. & D*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes, to fit the various types of Cachet Machines

Anthony Leighton.
Best Shampoo for Kiddies.
When on view never yet failed to interest a mother. It rids childrens' heads from pests in a nice way and is the ideal Kiddies Shampoo.
WE WILL SEND YOU —CARRIAGE PAID
A splendidly got up 6 doz. box with 1 doz. 6d. packets as Bonus with plenty of show material at once. Send p.c. immediately.
4/- DOZ ALWAYS ADVERTISED 43% UNFAILING SALES. 6d Each PATA
LEIGHTON LABORATORIES. 35 GRAYS INN ROAD.W.C.1.

PER 4/- DOZ. **Quin Quenna** P.A.T.A. 6d EACH
BETTER THAN A SHAMPOO
best 'Hair Grower' and 'Waver' known, thousands say so and our ads: tell customers, chemists can supply. Have you yours on show?
Will send at once 6 dozen with 1 dozen Bonus and window material Carriage Paid.
43%
Any number of chemists sell 1 gross a month and you can do the same
CHRISTY'S
Old Swan Lane, E.C.4.

SEND US YOUR PROBLEM
Breathing Apparatus and Respirators
For Work in Poisonous, Noxious and Irritant Fumes, etc.
SIEBE, GORMAN & CO., LTD.
187 WESTMINSTER BRIDGE ROAD - - LONDON, S.E.1
WE WILL ADVISE FREE

Telegrams: "THERMORIGI BRIGHTON."

TRADE MARK: "THERMORIGI," REGISTERED.
Member of British Lamp-blown Scientific Glassware Manufacturers' Association, Ltd., and Glass Research Association.
E. S. ARRIGHI,
CHEMICAL AND EXPERIMENTAL GLASS BLOWER AND THERMOMETER MAKER,
39 & 40 BOND STREET, BRIGHTON.

Have you a WINE LICENCE?

If not, you should take steps to procure one, and we will pay the cost.

If you already have a licence we undertake to pay the annual charge.

Dr. HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

The only conditions are—

1. *That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.*
2. *That you give us an agreed initial order.*
3. *That you keep Dr. Hale's Vin-Sanguis always in stock.*

Advertising Matter and Doctors' Samples free.

Trans - Continental Agencies, Limited

Proprietors of Dr. Hale's Vin-Sanguis.

14 Southampton Street, Strand, London, W.C. 2.

Four bottles of Osmos FREE!

As a part of the great Osmos advertising campaign now in operation throughout the country, and as a special inducement to chemists to secure the utmost benefit from the rapidly growing demand for this British Medicinal Water, the proprietors offer FOUR BOTTLES FREE to chemists ordering one dozen. The condition is that Osmos is displayed in their window until their order is sold. Retailers who are displaying Osmos greatly appreciate the concession and are benefiting accordingly.

Osmos retails at 2/6 (P.A.T.A.)

Osmos The Great British Aperient Water

Trade Terms:
22/- per dozen bottles
Carriage Paid.

Osmos, Crown Wharf,
Hayes, Middlesex.

Why Demand is still Growing.

Demand for the Nestlé Feeding Bottle is still growing—and it is growing because it is superior to any other feeder on the market. Its many advantages are so evident that mothers, thinking of the safety and comfort of their babies, are insisting upon the Nestlé Feeder.

The teat and rubber valve of the Nestlé Feeder are made with inner rolls which automatically cling and cannot be pulled off by the child. There is not the usual danger of swallowing the teat as in many other feeders. Pure plantation rubber is used in the manufacture of the teat and valve. Colic is prevented by the rubber valve regulating the flow of air behind the milk. This valve also ensures a steady milk flow in accordance with baby's need.

The Central base, tapering flat under surface of the virgin glass feeder enables it to be tilted to, and remain in, any desired position. This saves the time usually occupied holding the feeder. It holds more—the feeding capacity is 10 oz.—sufficient for any child at one feed.

NESTLÉ Feeding Bottle

The Cheapest full-size Feeding Bottle on the Market.

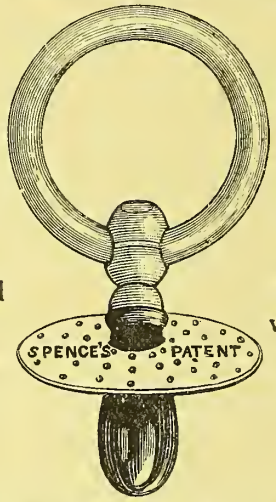
Every part of the Nestlé Feeder, including box, is British made. Every Feeder is sterilised before leaving the factory.

The margin of profit to you is good and the turnover rapid. Write us for full details and current Trade Price List.

NESTLÉ'S (Advt. Dept.),
6-8 EASTCHEAP, LONDON, E.C.3.

SPENCE'S SOOTHERS

This is a Speciality of ours—Best Quality Well-Fitted and Attractively Carded.



Stocked in 85 Varieties. All Good Selling Lines and well-known to the Public.

A complete set of Samples can be sent upon receipt of Postal Order value 22/- Net.
£1 orders and over, less 5% cash with order.
Carriage paid on 40/- orders and over.
Representative can call in London and Suburbs with Samples upon receipt of Post Card.

H. B. SPENCE, 44 THORNE ROAD, SOUTH LAMBETH, S.W.8
Telephone: Brixton 1772.

GOOD SELLING LINES, GOOD PROFITS, AND ABSOLUTE SAFETY IN STOCKING
"HOBSON'S CHOICE"
FEET PLAISTERS AND POWDERS
STOCK IS RETURNABLE AT ANY TIME, FOR ANY REASON, AND FULL PRICE REPAID.
For Prices and Samples apply to
HOBSON, TRIMBLE & CO., LTD.
Union St., and Market, LEEDS,
or your own WHOLESALE HOUSE.

BEST ENGLISH MAKE
SEA-TANGLE TENTS
(Laminaria Digitata)
For dilating the OS and CERVIX UTERI.

Quotations wanted for
SEA WEED RODS
per ton.

Manufacturer: **E. BRASSE,**
Culvert Works, Culvert Road, South Tottenham, London, N.15. [2]

"TOMPKINS' CORNER."

TOP VALUE IN

BATHING CAPS

Immediate DELIVERY FROM STOCK

No. 292.
LA VICTOIRE. All rubber, helmet shape, with stockingette bands, assorted colours.
Note Price, 23/- dozen.

No. 286. — Cheap, all rubber, assorted colours, 10/- dozen.

No. 269.—Check, circular, waterproof, 9/6 dozen.

WHY PAY MORE?

Variety of Fancy Lines in Stock.

Samples submitted.

All KINDS of SURGICAL RUBBER GOODS for the HOME & OVERSEAS MARKETS.

JAMES TOMPKINS, LTD.
THE RUBBER HOUSE,
386 City Road - LONDON, E.C. 1.
ALL-BRITISH. Established 44 years. Phone: City 7640.

RENÉ HEYMANS

9/10 DOMINGO STREET
Tel.: City 3765. 36 OLD ST., E.C.1

Vulcanite DOUCHE FITTINGS
" Spare Parts
" Enema Pipes
" Whirling Spray Canules
BONE SHIELDS
BONE MOUNTS
BONE RINGS
French Capping Skins (opaque and transparent)
TOOTH COMBS
(Best Galalit)
POCKET COMBS
Cheap lines in NAIL FILES (bone and steel) carded
SAFETY RAZORS and spare blades.
French SHAVING BRUSHES
NAIL CLIPPERS.
TOOTH BRUSHES
at low prices.
And all kinds of Surgical and Hygienic Rubber Goods.

Pure Rubber

BATHING CAPS

No. 3527.
Assorted Green, Red and Blue,
30/- doz.

No. 3523.
Assorted Green, Red and Blue,
34/6 doz.

No. 3366.
Assorted Black, Blue, Red and Green,
18/- doz.

No. 3520.
Assorted Blue, Green and Red,
40/- doz.

Subject to Usual Terms.

WILLIAM TOOGOOD, LTD.
77 Southwark Street - S.E. 1

Beldam Plain Red Rubber Sponges are supplied in five sizes—from 3¾" to 7" long. Prices to you—from 13/6 per doz.

BELDAM
Pure Rubber
SPONGES

TRADE MARK

BELDAM Rubber Sponges are better and last much longer than ordinary rubber sponges. They are made from the best red rubber. They are of a fine, soft texture, delightful to use.

They provide the perfect sponge for use in the toilet, the bath, the lavatory, the sick room or the surgery. Medical men recommend them. They are unaffected by boiling water or by strong disinfectant.

Address:
Rubber Sponge Dept., The Beldam Tyre Co. (1920) Ltd.
Brentford, Middlesex.

BW

EMERY BOARDS
AND
ORANGE STICKS.

CARDED FOR RETAIL CUSTOMERS.
CARDED OR LOOSE FOR WHOLESALE.

WILLIAMSON BROS.,
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Northern Showrooms: Office No 7, 49 Deansgate, Manchester. *Phone:* Avenue } 5827

NAIL
FILES, SCISSORS, CLIPPERS, INSTRUMENTS.
—TWEEZERS & FORCEPS.—
Special quotations to large buyers.
HENRY W. SCURR, HENRY RD., SLOUGH

The Dye with a Reputation for reliability.
ROYAL COURT HAIR DYE
SEVEN SHADES.
1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.
The only dye giving a natural gloss to the hair.
From all wholesalers or direct
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SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.
Extremely Elastic, but contains no Rubber.
Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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Fitted with Raine's Patent Vulcanite Mount, Patent No. 14433/15.

This Patent Mount produces by Single Pressure of the Bulb Two Sprays that operate in opposite directions.

Constructed upon latest Scientific Principles.

BRITISH MADE.

MADE OF HIGH-GRADE QUALITY RUBBER.

GUARANTEED NOT TO SPLIT.

ON THE P.A.T.A. LIST.

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OBTAINABLE THROUGH ALL WHOLESALE HOUSES.

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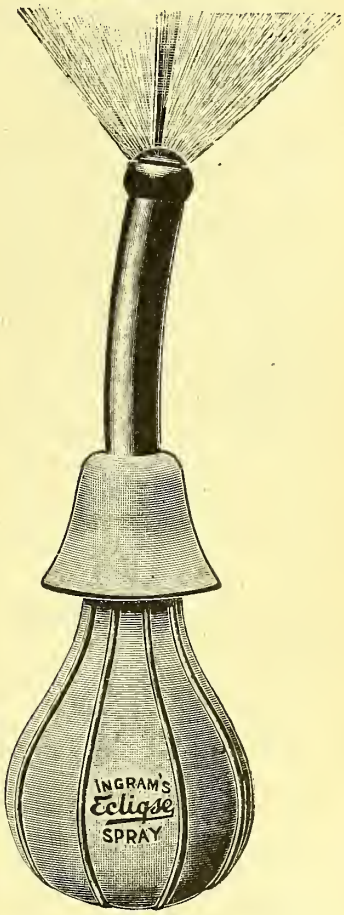

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Complete in attractive Cardboard Box.
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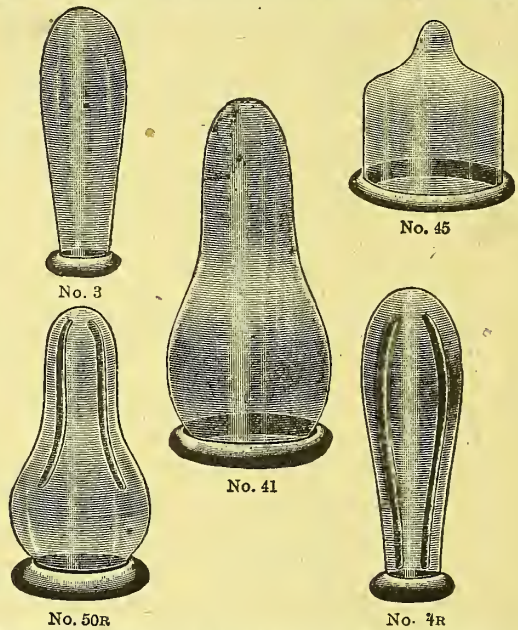

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—HYGIENIC TOWELINES—

Absorbent Accouchement Sheets, W.P. Bed Sheets
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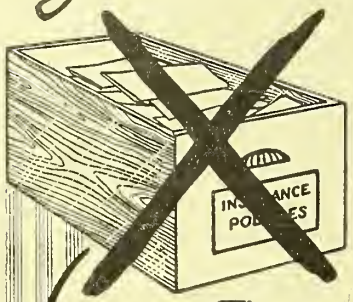

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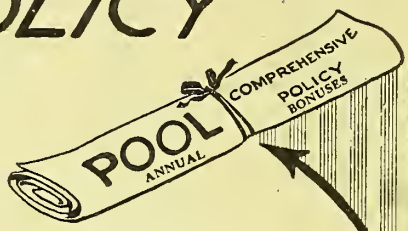

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READY—waiting at the Factory. Order *now* and you will get prompt delivery of any standard line. Say what you want! You can't go wrong. No better value anywhere. And what is more—they are guaranteed.

You say you want a Firm that Keeps its word—that delivers the goods. You want Corks that you Can use when you've got them—that look good, feel good, *are* good. The fact is, the Corks you want are Pyramid Corks. Prove for yourself.

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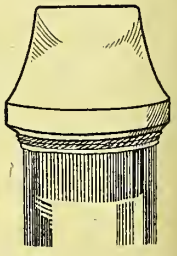

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Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.

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THE GREAT TONIC

This Cut-out is an exact reproduction of the "QUINPHOS" package. It stands 11 inches high.

Please send for one or more, and qualify for the BONUS.

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TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb. Made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic.

For producing up to
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5 " " 15 " "

Please Enquire for Quotation.

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills: National Physical Laboratory, 2 in use; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

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Estimates submitted free if required for supplying and fitting complete.

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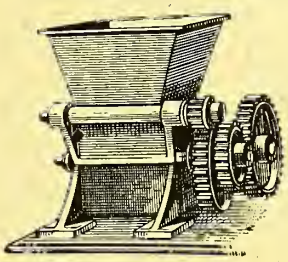
for Pill Ingredients



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"LEYSELL" Sifting and Mixing Machines.

Made in various sizes for power or hand.

For mixing a large variety of dry powder.

Quick delivery. Inquiries solicited.

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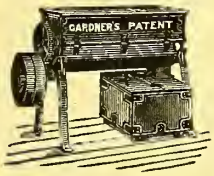

OVER 6,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

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We find the Dryers particularly useful when dealing with "rush orders," which call for large quantities of bottles, as the bottles can be washed and dried—in considerable quantity—inside an hour, whereas under the old system it would have taken the best part of a day, and then the bottles would not have been so completely dried as under the present system.

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Sutcliffe Ventilating & Drying Co., Limited,
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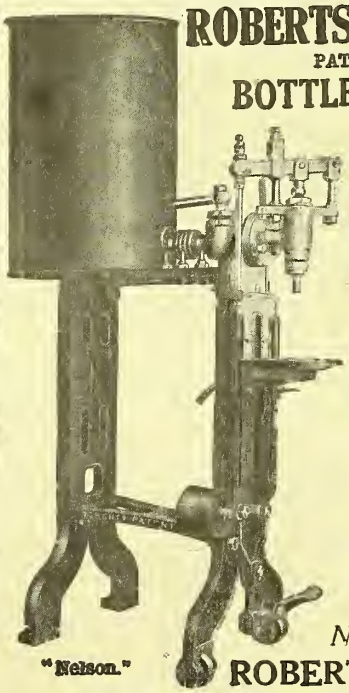
Telephone No.: CITY 3920. Telegraphic Address: "VENTILABRO."



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Don't waste money on imitations, buy Roberts' Machines which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

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OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

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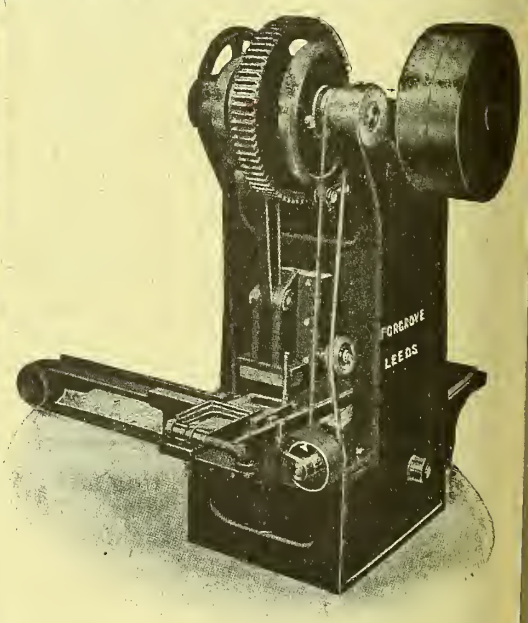

SOAP STAMPING MACHINES.
Output, 50 pieces per minute.

THE FORGROVE MACHINERY CO., LTD.
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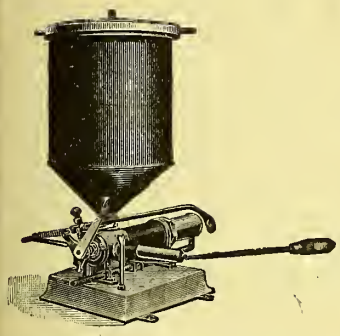
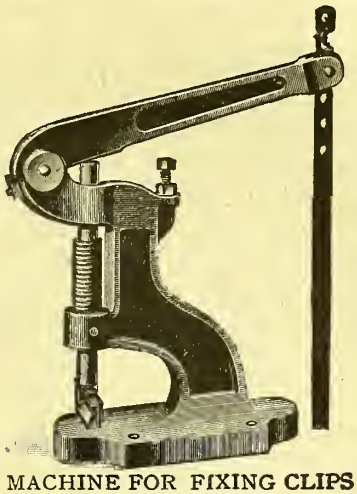


MACHINE for FILLING COLLAPSIBLE TUBES. From 1 to 10 gallons CAPACITY. Output 30 to 40 gross tubes per day.

MACHINE FOR CLOSING AND FOLDING COLLAPSIBLE TUBES. Suitable for all sizes of tubes. ⅜" to 1½" dia.



MACHINE FOR FIXING CLIPS to ends of collapsible tubes.

Can be seen in operation at—

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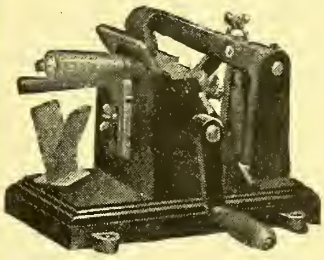
For TUBES, POTS, JARS and BOTTLES



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Per 6/- doz.

In Screw-top Boxwood Cases and Outers of 1 dozen with Showcards.
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Manufactured by
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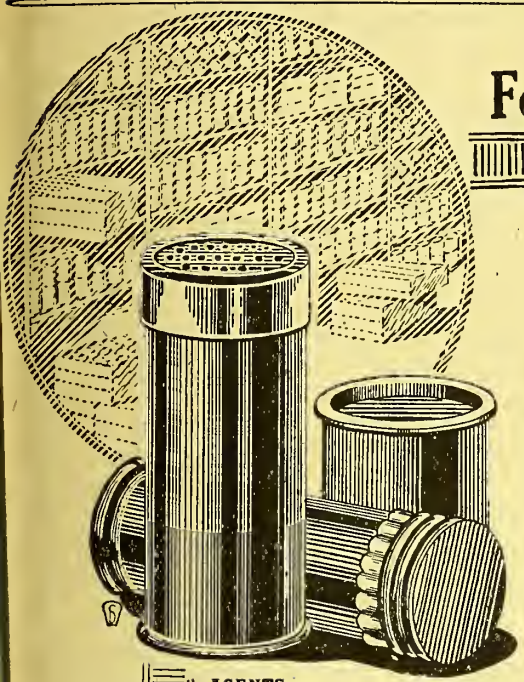
Obtainable through all Wholesale Houses.

For Economy and Convenience



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"ELSWAL"
Regd.
TRADE MARK.

With freightage at its present destructive rates, no manufacturer of pharmaceutical or toilet preparations can afford to overlook the claims of these hygienic canisters.

Apart from being unbreakable in transit, and that they eliminate the trouble and costs of returns, "ELSWAL" canisters are 800 % lighter than glass or earthenware.

Fulfilling modern hygienic standards, and prominent in the public fancy on this account, the employment of glass or earthenware containers is a retrogressive and ruinous policy.

The public **will** have composite canisters and the wise retailer specifies them in ordering from the manufacturer.

But remember the brand "Elswal," which ensures finest quality, best workmanship, correctly fitting lids and unleakable seams.

For all purposes—in all sizes—and in any shape, "ELSWAL" Hygienic Composite Canisters are the best.

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Have replaced the old willow boxes.

The bottoms cannot fall out.

Greaseproof.

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Manufacturers of all kinds of Cardboard Boxes, Folding Packets, Tubes and Canisters, Fibre-Board Packing Cases, Corrugated Paper, &c.

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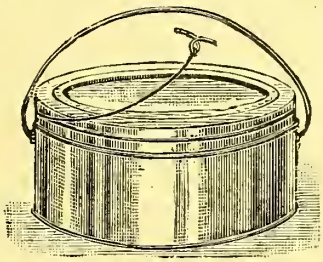

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Manufacturers for the Chemical Trade.

TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

Prompt Deliveries Assured.

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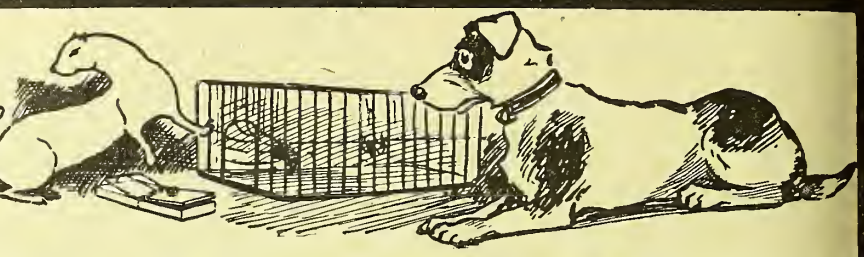

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E. H. WRIGGLESWORTH, Ltd.,
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The Absolute Remedy.

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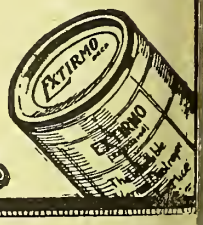
KILLS RATS. and MICE



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for Rat Extermination

The use of 'DAK' Ratlime for Rat extermination is steadily extending and you may receive enquiries.

'DAK' is a specially manufactured Birdlime of exceptionally high tenacity and of the consistence which experience has shown to be most effective.

'DAK' avoids the risks inseparable from the use of poisons.

'DAK' can be used with perfect safety in food warehouses, on farms and in the home.

'DAK' is easy to use.

'DAK' does not require bait.

'DAK' victims are held on the spot and cannot get away to die in holes.

Cases of 1 dozen 1-lb. tins, 20/- net. Carriage forward.

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May 7/20.

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Enclosed please find copy for cards for Soap Window Display. I leave the sizes and styles to you.
YOUR CARDS ARE SPLENDIDLY DONE AND THEY GET THE BUSINESS.
My difficulty has been to keep pace with the Sales, as one cannot always depend on Manufacturers delivering goods in time. **The one you did for a "Special Tooth Brush" I had to withdraw in 3 Days—SOLD OUT!**

Yours truly, J. MILLING,
Proprietor of J. McGuffie & Co.

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(31st December, 1919).

CAPITAL SUBSCRIBED	£58,878,400
CAPITAL PAID UP -	9,420,544
RESERVE FUND - -	9,675,105
DEPOSITS, &c. - -	325,938,436
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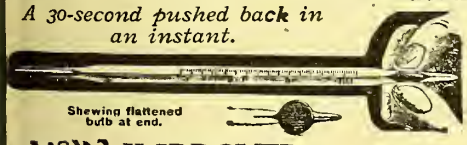
The REPELLO requires no shaking down
A 30-second pushed back in an instant.



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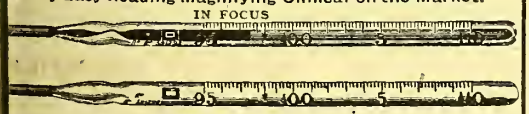

The square mark engraved on lens front locates the Mercury column immediately.
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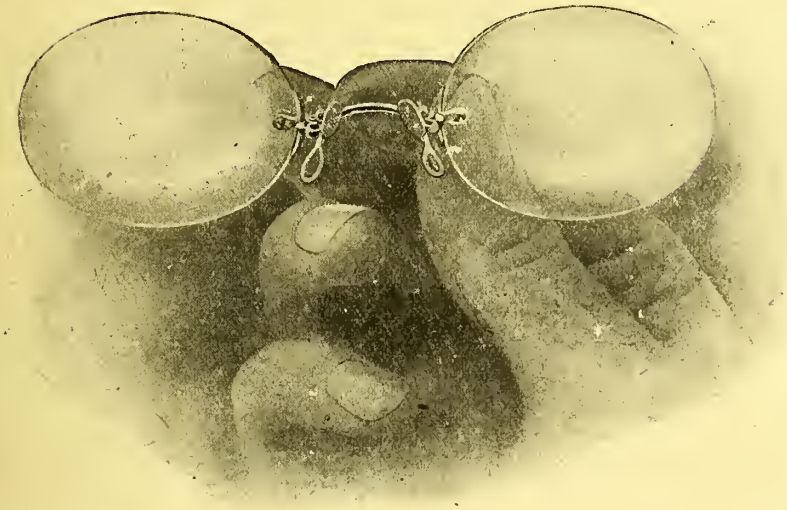

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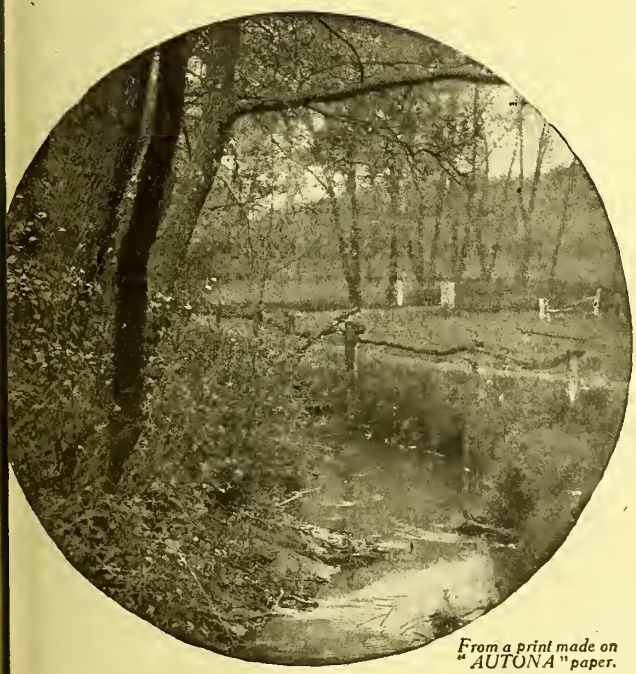

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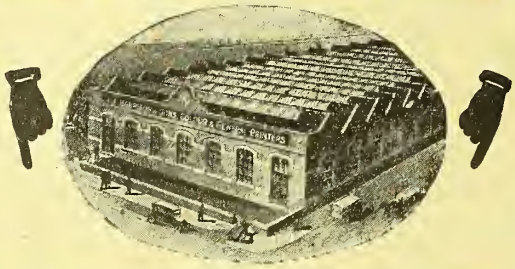

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(108)

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON, E.C.4.

AUGUST 14, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

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REVISED ADVERTISEMENT TARIFF.

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Telephone: Central 3617 (3 lines). Telegrams: "Chemicus, Cannon, London" (2 words).

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ORTH-EAST COAST.—Lock-up Pharmacy; returns, rate, £70 monthly; scope for considerable increase; *net* 5%; rent £30; new lease will be granted, or premises purchased; price to be agreed.

ORTH STAFFS.—General Retail Business; returns over books open to inspection; double-fronted shop; moderate new lease will be granted; price about £1,500.

8.—HAMPSHIRE.—Old-established Business, mostly own Proprietaries and Prescribing; returns last year between £11,000 and £12,000, *at excellent profits*; further details on application.

9.—SURREY.—Good-class Retail and Dispensing Business, situate in charming locality; returns upwards of £4,500, at good prices; further details will be furnished on receipt of a banker's reference.

10.—SOUTH COAST.—For disposal, Wholesale Business, dealing chiefly in Packed Goods; returns about £6,000 per annum; model factory, two floors, electric light; moderate rental; held on lease; price to be agreed.

11.—SOUTH OF SCOTLAND.—Unopposed Mixed Business; returns exceed £20 weekly, at good prices; modern fitted shop, small house; price £600; the premises may also be purchased for a further £600.

12.—WARWICKSHIRE.—General Retail Business, with N.H.I. Dispensing; returns about £20 weekly; *net profit approximately* £300; double-fronted shop, fitted in mahogany; stock and fixtures estimated at £550; rent £55, sub-let £30; price £650.

13.—NORTHAMPTONSHIRE.—General, Retail, and Dispensing Business; returns exceed £60 weekly; *net profit about* 25%; moderate rent; held on lease; further details on application.

14.—KENT (Market Town).—Good middle-class Business, Retail and Dispensing; returns upwards of £2,400, at fair prices; well-fitted shop, fully stocked; new lease will be granted; price to be agreed.

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Established 1870.

LEGAL.

IN THE MATTER of a Deed of Assignment for the Benefit of Creditors dated the 14th day of April 1920 and executed by Thomas Woolldridge of 26 Lisle Street Leicester Square in the County of London Chemist and Druggist.

THE Creditors of the above-named Thomas Woolldridge who have not already sent in their claims are requested on or before Friday the Tenth day of September 1920 to send in their names and addresses with full particulars of their debts or claims to me the undersigned Trustee at 32 Kimberley House Holborn Viaduct in the City of London or in Default they will be excluded from the benefit of the said Deed of Assignment having regard only to claims of which I shall then have had notice.

DATED this Fourth day of August 1920.

PARKIN G. BOOTH,
Trustee.

In the Matter of
Hamilton, Long Company Limited and Reduced
and
In the Matter of
The Companies (Consolidation) Act 1908.

NOTICE IS HEREBY GIVEN that the Order of the High Court of Justice in Ireland Chancery Division dated the 27th day of July 1920 confirming the Reduction of Capital of the above named Company from £30,000 to £18,000 and the Minute approved by the Court showing with respect to the Capital of the Company as altered the several particulars required by the above Statute was registered by the Registrar of Joint Stock Companies on the 9th day of August 1920.

The said Minute is in the words and figures following:—

"The Capital of Hamilton Long & Co. Limited is henceforth £18,000 divided into 6,000 Shares of £3 each instead of the original Capital of £30,000 divided into 6,000 Shares of £5 each. At the time of the registration of this Minute the full sum of £3 per share has been paid and is to be deemed to be paid up on 5,300 Ordinary Shares which have been issued and the residue of the said 6,000 Shares namely 700 are unissued."

Dated 10th day of August 1920.

HAYES & SONS,
Solicitors for the Company.

41 & 42 Nassau Street, Dublin.

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Ernest J. George

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Chemists' Accountant, Valuer, Transfer A and Expert Stocktaker for Sale, Purch Income Tax, etc.

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Telephone: 1934.

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GRAM Chemical Balance, turning to 1 milligram; 500-gram set of Weights in mahogany case; about 12 dozen Chemical Reagents, wet and dry; Chemical Apparatus; request. "Radix" (131/6), Office of this Paper.

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ON, E.—Cash Retail Business, under unqualified manageent; double-fronted shop, well fitted; electric light; side ; upper part sub-let; present hands ten years; rent £55; average £1,800; no N.H.I.; lowest cash price, £1,000; alified working partner entertained. Apply "Pharmacy," ftsbury Avenue, Thorpe Bay, Essex.

ANDS.—For disposal, high-class Pharmacy in populous urb of large town; well fitted-up and heavily stocked; ing accommodation; rent £30 and rates; leased if desired; about £1,200 under competent unqualified management; could greatly increase; satisfactory reasons for disposing; escribing, Photography, etc.; price £775. Write 128/39, this Paper.

ANDS.—Old-established Business for Sale; agricultural trict; good house and garden attached; rent £40; let off, N.H.I., Optics, or Photography; neglected on account of gagement; well stocked and handsomely fitted; scope for y. Apply "Ajax" (130/40), Office of this Paper, enstamped addressed envelope for reply.

MIDLANDS.—Good-class country Business, established century; unopposed for eight miles; returns average profits over £300; rent £45; house seven rooms; lease s; price £1,000; also garden ground £200; proprietor district requires larger business. "Exalgin," c/o , Grabam Street, City Road, E.C.

ORDSHIRE (near Birmingham).—Chemist's old-estabed Business, in busy industrial town, for immediate dis- N.H.I. (about 3,000 scripts annually), with excellent ries; Extractions, Photographics, and other paying sideucrative Counter-prescribing connection; opening for and Dentistry; double-fronted shop; 5-roomed house ; ample cellarage and all usual conveniences; overhead low; profits average £360, increasing; about £500 reprincipals only; bankers' references. Write 130/1, Office Paper.

RTISER has Branch Business in the Midlands for sale; urns £25 per week; net profits 33⅓ per cent.; rent and 27 per annum; vacant living accommodation over the ; price £550; easy terms can be arranged if desired to yer., "W.," 38 Potters Hill, Aston, Birmingham.

CHEMIST'S and Druggist's Business for Sale.—High-class, well-established Chemist's and Druggist's Business in High Street, Dunblane, Perthshire, for Sale (owing to the death of the late Mr. Charles Hunter); large and increasing turnover; first-class moderately rented shop in central position; entry immediately or as soon as arrangements can be made. Apply Messrs. McLean & Stewart, Solicitors, Dunblane.

CHEMIST'S country Business for disposal, situate Severn Valley of Shropshire; splendidly fitted shop; large house; side entrance; Dentist attends one day each week, paying £26 per annum; returns £1,000, with plenty of scope for increase; rent £27 10s. and rates; price £600. Apply 128/28, Office of this Paper.

CHEMIST'S; old established; N. London; corner shop, on important 'bus and tram route; rent only £65, part sub-let to Dentist, etc., at profit rental of £133; trade £25 weekly; bargain at £800, including stock and fixtures. Fleck, 11 Adam Street, Adelphi, W.C. 2.

GOOD-CLASS Dispensing and Retail Business in large South-West Coast town; returns £2,000; profits good; price about £1,250. Apply 128/31, Office of this Paper.

PROFITABLE Business, in select residential suburb, Midlands; no competition; investment invited; ill-health; small shop and house, with possession; 2 bedrooms; house can be let off; very long garden, well planted; rates under £4 per annum; no rent; £1,150 (including freehold, stock, fixtures, and goodwill). Apply 129/31, Office of this Paper.

WELL-ESTABLISHED Retail Chemist Business for Sale, situated in main thoroughfare of Leytonstone; double-fronted shop in good repair and good dwelling accommodation; rent £65; lease 16 years unexpired; returns average £3,000 per annum; stock estimated at £2,400; fixtures and fittings £300; book debts, including N.H.I., £70; terms, valuation of stock, fixtures, and fittings, plus a sum to be agreed for goodwill. Fullest particulars from The Association of Manufacturing Chemists, Ltd., 31 Kimberley House, Holborn Viaduct, London, E.C. 1.

AGENCIES.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BOMBAY firm, extremely well situated for the supply of Essential Oils, Drugs, etc., will be glad to negotiate with established Agents in London and Liverpool; c.i.f. as well as consignment business handled. Apply 128/30, Office of this Paper.

SOUTH AFRICA.—Gentleman, 25 years in business there, is open for Sole Agencies in Drug, Surgical Instruments, Photo Goods, and other allied lines; returning to South Africa in October or November. P.C.B. 5/23, Office of this Paper.

BRITISH firm manufacturing small article that sells in big quantities in warm climates require Agents having connection amongst wholesale buyers in China, India, South Africa, Egypt, Balkans, Spain, Portugal, Argentine, Brazil, Mexico, United States, Australia, New Zealand. Apply, stating fully ground covered, agencies held, and give London or Liverpool references, 118/15, Office of this Paper.

COMMISSION Travellers and Buying Agents wanted for charming novelty selling in thousands; shows excellent profit to Retail, Wholesale, and representatives. State territory covered and present engagements to "G.," 73 Horsford Road, London, S.W. 2.

COMMERCIAL gentlemen, with over 18 years' experience Brushes, Perfumery, Proprietaries, require sole agencies; agencies Française accepté; valuable Wholesale, Retail, and Stores connection in Lancashire. Apply 127/32, Office of this Paper.

THE principal of an important South African firm of Wholesale Chemists now in this country requires sole Agencies for that country; first-class lines only entertained; Perfumery, Toilet Goods, and Packed Specialities. Apply P.C.B. 6/4, Office of this Paper.

APPRENTICESHIPS.

APPRENTICESHIP.—Youth requires engagement, preferably in S.E. London district. B. J. Backhouse, 60 Queen's Road, S.E. 15.

PARTNERSHIPS.

8s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

PARTNERSHIP entertained in reliable concern, either good-class Retail business or small Manufacturing or Wholesale Sundries—must be sound—by man with good Retail experience, both London and country; age 35; good education and address; excellent references; cash immediately available. Replies strictly confidential to 129/24, Office of this Paper.

QUALIFIED, 27, desires Retail Partnership; would join another in buying or opening a business; £500 available. 35/298, Office of this Paper.

BUSINESSES WANTED.

8s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

HAMPSHIRE, Sussex, Surrey, or adjacent Counties.—Wanted, by Advertiser, disengaged, with immediate cash available, sound, good-class Country or Dispensing Business where a substantial turnover is done; replies received treated strictly confidential; bankers' and Wholesale references given; no agents. Mr. Keeble, The Balconies, Liss, Hampshire.

MANCHESTER or near.—Pharmacist would be glad to hear of one wishing to dispose of a business; turnover about £2,000; or a Business which could be improved not objected to; can wait if desired; never advertised before; not particular for house. Write in confidence 123/28, Office of this Paper.

A PHARMACY required; centre of town and seaport preferred; returns £3,000 and upwards; capable of improvement; must stand close investigations. Apply, in strict confidence, giving fullest particulars in first case, to 129/40, Office of this Paper.

DRUG Store Wanted; lock-up or live over; scope for Optics and Dentistry; one where proprietor would accept a fixed sum per month for an agreed period; willing to pay well; Midlands or East Counties preferred, but not essential; would accept management with view to succession; references exchanged. Apply "D. B. O. A." (127/37), Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ASSISTANT PHARMACISTS IN NAVAL HOSPITALS.

An Examination for candidates for appointment as ASSISTANT PHARMACISTS in Naval Hospitals will be held in London on 28th October, 1920.

The number of appointments offered for competition is three.

The age of candidates on entry must be not less than 21, nor more than 28 years.

Candidates must possess either the Major or Minor qualifications of the Pharmaceutical Society of Great Britain or the certificate of competency granted by the Pharmaceutical Society of Ireland.

The regulations for entry and subjects of examination will be supplied on application to the Secretary of the Admiralty (C.E.). Application for admission to the examination should be made to the Secretary of the Admiralty (C.E.) not later than 1st September.

FOLKESTONE.—Junior male Assistant required for high-class Dispensing business, to live in; young man recently out of apprenticeship preferred. Apply, with full particulars and photograph, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

HULL.—Elderly qualified Assistant required; easy hours; light duties; permanency. State age, salary required, to "Hull" (128/35), Office of this Paper.

HULL.—Wanted, Junior Assistant, about 21, outdoors, in good-class Retail and Dispensing business; two kept; state age, height, salary required, and references; vacancy in one month's time. Apply Metcalfe & Son, Pharmacists, 13 Whitefriargate, Hull.

JERSEY.—Wanted, early September, qualified Assistant; g Window-dresser; short hours; weekly half-holiday, and Sunday duty. Apply, giving full particulars, when disenga and salary required, to "A. Z." (124/37), Office of this Paper

LANCASHIRE.—Qualified Manager, with Optical experie required to take charge of a progressive Light Retail b ness, situate in the centre of a manufacturing town; good ope for a live man. Apply "Lancashire" (128/350), Office of Paper.

LONDON, S.W.—Junior Assistant or Improver, unquali young, for brisk cash business; must be quick, accurate penser and tactful Salesman; highest references essential; pl give particulars of experience, stating age, height, when at lib and salary required. Apply 129/7, Office of this Paper.

MANCHESTER.—Unqualified Assistant required immedi for permanency; age 20 to 30; middle-class business, easy hours and no Sunday duty. State salary required, whe liberty, and whether an interview could be arranged, to 12 Office of this Paper.

NEAR ROTHERHAM.—Junior Assistant required Sep ber 27th, for about nine months; usual Counter and Dis ing business; colliery district; outdoors. Apply, with usual ticulars, to Chemist Department, Denaby Main Ind. Co-op. So Ltd., Strafforth Terrace, Denaby Main.

SOUTHPORT.—Qualified, to cover qualification; very light d Write, stating salary required, 81 Moreton Road, Eccle

ASSISTANT required end of August; age 21 to 22; accust to Dispensing and Stock. T. Davies, 485 King's R Chelsea, S.W. 10.

ASSISTANT wanted for good-class Dispensing business. A with full particulars as to age, height, experience, refere and salary required, to A. E. Coverdale, Pharmaceutical Che Worcester.

ASSISTANT; unqualified; accustomed to quick, high-class ness and Photography. State salary (outdoors), and e photo, to H. R. Browne, Pharmaceutical Chemist, Eastbourn

BRANCH Managership awaits smart qualified man not und The right man will have a very comfortable berth, wages, and every consideration; photo, references, age, h and fullest particulars should be sent in first letter. Chemist, Accrington.

CAPABLE Assistant required at once; hours 9 to 7; Sat 9 to 8; Wednesday 8.30 to 1; Sunday two hours occas Full particulars with salary required to A. Roberts & Co., W. 3.

COMPETENT Junior required (permanent); preferably Preliminary. W. Jones & Co., 134 Southampton Row, W

DISPENSER, unqualified, with undeniable references, re in high-class business for September 1st; easy hours pensing only; good Dispensing experience; speed and ac essential. Apply, stating full particulars, Hickman & M Market Place, Newbury.

JUNIOR Assistant, outdoors; energetic and trustworthy; 9 to 7.30, Thursday 1, Saturday 8.30; no Sunday State age, height, experience, references, salary required when disengaged. Enclose photo (to be returned), L. J. Pharmaceutical Chemist, 17 Lichfield Street, Wolverhampto

LADY Assistant required for Dispensing and Light Please send full details as to age, experience, sala quired, etc., with photo, to E. J. Savage, 13 Queen's Bournemouth.

MANAGER wanted, high-class business, South Wales; m man preferred, accommodation provided. Apply, givi perience and copies references, to 126/19, Office of this Pap

PART-TIME.—Experienced Assistant required; good C man, with knowledge of Photography preferred; two or evenings weekly; half-day Saturday; Upper Tooting; pleas particulars of experience and time free; remuneration 2 hour. Apply 129/70, Office of this Paper.

UNQUALIFIED, gentlemanly, competent Assistant; nea accurate Dispenser; accustomed to high-class Dispensi Counter business; age about 35; tall preferred; knowled Photography; character must bear strictest investigatio N.H.I.; permanency; salary £4 per week. Apply, giving ences, age, height, married or single, when disengaged, e Herbert Brown, Chemist and Optician, Mansfield Road, N ham.

UNQUALIFIED Assistant required; must be expert W dresser and have knowledge of Photography. Apply, s age and wage required, to Colmans Ltd., 19 Brunswick Cheetham, Manchester.

NQUALIFIED, for first-class Dispensing and Counter; must have knowledge of Photography; hours 8.30 to 8; 2½ hours' nate Sunday duty. Apply, stating wages required (outdoors), reference, to McKinnell, Chemist, Northampton.

ANTED (immediately), competent Assistant, till about end of September; must be accustomed to brisk Retail and ensing, with Photographics; kindly state age, height, former rience, and salary required (outdoors); applications not con- ag the necessary information cannot be considered. Evans, ade, Margate.

ANTED, experienced Lady Assistant; smart and obliging; must have good experience; usual hours. Please state salary, rience, and references, and when disengaged, to Gibbs, nist, Berkhamsted.

ANTED (at once), a capable Junior Assistant (either sex) in good-class business (indoors); state age, height, experi- and salary required; enclose photo. Apply 129/33, Office his Paper.

ANTED, Junior Assistant, capable and trustworthy, for good-class Retail and Dispensing country business. Kindly age, experience, references, and salary required (indoors), Lewis, The Pharmacy, Tisbury, Wilts.

ANTED, young lady Assistant; Light Retail and N.H.I. Dispensing; near Nottingham. Experience, salary, age, etc., 29/13, Office of this Paper.

WHOLESALE.

Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

NDON Traveller wanted to develop the sale of Rosine and De Luzy lines; must be a gentlemanly and sincere Salesman, already have a connection amongst London Chemists and s; just salary and generous commission paid. Write in first nce, giving experience and requirements, in confidence, to H. C., W. H. Calnan & Co., 30-32 Ludgate Hill, London, 4.

NDON Druggist Sundries' House requires a Representative for London and South Coast; good connection essential, and connection given. Apply 23/26M, Office of this Paper.

A LONDON firm of Wholesale Druggists have an important post to fill. They require a gentleman, about 35, of good education, address, and appearance, and a thorough knowledge of the Drug trade on its commercial side especially, partly as Outdoor London Representative and partly as Indoor Worker; no one entertained who has not a first-class Wholesale experience and a good knowledge of Druggist's selling-prices and costs gained from actual responsibility for both; for a really able and energetic man, furnishing evidence of such qualities, an exceptional position can be offered and liberal salary and commission, with good prospects; applications, stating in detail experience and qualifications, invited. Address 7/13D, Office of this Paper.

REPRESENTATIVE required by London firm, with connections among Sundries houses and Exporters; only men with ience and connection need apply. 23/260, Office of this .

VACANCY occurs in the Analytical Laboratory of a well-known London firm of Wholesale Druggists for a Chief ant. The position is one which offers good prospects to an etic and competent man. Applicants, who must have had aceutical experience, should apply, giving full particulars, required, etc., to 14/22H, Office of this Paper.

VACANCY occurs in the office of a leading firm of Wholesale Manufacturing Chemists for an enterprising youth osition is one which will suit an ambitious young man who ist finished his apprenticeship in the Retail, and who wishes t into the Wholesale. Applicants, who must be energetic ot afraid of work, should apply, giving full particulars, required, etc., to 14/20H, Office of this Paper.

H-CLASS Representatives required for Perfumers and high- lass Soap Makers. Applicants must have good connections Chemists, Hairdressers, etc., otherwise useless to apply; tlemen with the above qualifications good salary, expenses, mmission will be paid. Apply 127/30, Office of this Paper.

HOME DRUG TRADE (WHOLESALE).—Clerk, with initiative, wanted for a Manufacturing Chemists; one who will take an interest in the correct and rapid execution of orders; position could be developed. Write, stating age and salary required, to 35/27S, Office of this Paper.

MAJOR man required by Wholesale Drug house, South Coast, for ordinary Pharmaceutical Analyses; experience in production of high-class Toilet Preparations an advantage, but not essential; well-fitted Laboratory. Apply, in confidence, stating salary desired, experience, age, etc., 131/5, Office of this Paper.

REPRESENTATIVES, with sound connections, required for London district and provinces to represent manufacturers of high-class Perfumery, Toilet Goods, and attractive lines of Chemists' Sundries; good salary and liberal commission to bona-fide business-getters. Write, giving full particulars, to "A. C." (1/16A), Office of this Paper.

REQUIRED (immediately), Representatives, with established connections, for London and provinces; high-grade, popular-priced Toilet Preparations; established concern, doing big turnover; commission only, 15 per cent. on bookings, half payable weekly. Write fully, stating territory worked and other lines carried, to "P. R. J." (7/39), Office of this Paper.

TABLET-MAKER; preference given to one with knowledge of Wholesale Pharmacy. State experience, salary, and age, to W. H. Legat, Manufacturing Chemist, Bolton.

WANTED, by progressive firm manufacturing Tablets and Packed Goods, Representatives for Midlands and Northern Counties, also Manchester; only those having established connection with Chemists should apply. White Band Manufacturing Co., Ltd., Croydon, Surrey.

WANTED, a capable Junior Invoice Clerk, used to extending, and quick at figures. Apply, stating age, experience, and salary required, to Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

YOUNG man with practical experience in Wholesale manufacture of Pharmaceutical and Toilet Preparations to supervise manufacture and finishing of Proprietary Articles enjoying large sale; some knowledge of Pharmaceutical machinery necessary. Give full particulars, experience, etc., in strict confidence, to 124/31, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BRITISH EAST AFRICA.—Wanted, Chemist's young, qualified Assistant; three years' engagement; salary monthly £25, £30, £35 respectively; second-class return passage paid; Photographic knowledge desirable. Apply by letter, stating age, qualifications, and experience, "Chemist," c/o Davis & Soper, Ltd., 54 St. Mary Axe, E.C. 3.

HONG-KONG.—Required (at once), qualified Assistant, with first-class Dispensing experience, for Pharmacy in Hong-Kong; three years' agreement; salary 350 Mexican dollars a month for first year, 375 for second year, and 400 for third year; second-class passage out and home. Written applications, with full details of experience, to Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

SHANGHAI.—Qualified Assistant wanted; unmarried; age 21-35; must be of temperate habits; second-class passage out and home; four years' agreement. Apply "E. H." (9/7E), Office of this Paper.

SOUTH AFRICA.—Young, qualified Assistants open to accept situations in South Africa, should apply to Lennon, Limited, 12-14 Lafone Street, Tower Bridge, London, S.E. 1. South Africa is prosperous and advancing steadily; the olimate is particularly fine and healthy; cost of living moderate.

TANGANYIKA TERRITORY.—Clerk in the Principal Medical Officers' Office required by the Administration of the Tanganyika Territory (formerly German East Africa) for a tour of 20 to 30 months' continuous residential service with possible extension and permanency. Salary £250, rising by annual increments of £15, to £400 per annum, with an outfit allowance of £30 on first appointment. Free quarters, passage, and liberal leave in England on full salary.

Candidates who are good shorthand-typists with a knowledge of Medical Dispensing, and who have served in some branch of H.M. Forces during the late War, unless satisfactory reasons for not having done so can be furnished, should apply at once by letter, stating age, qualifications, and experience, to the Crown Agents for the Colonies, 4 Millbank, London, S.W. 1, quoting M/10071.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—COMPETENT Assistant; age 25; accurate Dispenser; first-class Salesman; capable of taking charge; excellent references; disengaged. G. J. H., Buckingham House, Finsbury Park, N. 4.

A GENTLEMAN, with 30 years' experience of the medical profession, seeks post as Dispenser-Bookkeeper or Secretary; excellent references; permanency. Reply "Zeal" (164/10), Office of this Paper.

A PHARMACIST desires engagement as Manager, beginning of September; wide experience and best of reference. Duckett, 4 St. Andrew's Square, Surbiton.

A QUALIFIED Chemist desires permanency; young; ex-service; thoroughly competent and reliable; experienced in first-class Pharmacies; City or provinces; well recommended. Thursby, Ambleton House, Riding Street, Southport.

ACTIVE Pharmacist, 44, good address, immediately, charge or Management; state salary offered. Dallas, Mercer's Pharmacy, 53 Water Lane, Preston.

ADVERTISER, qualified, young, competent Dispenser, having mainly Hospital experience, desires position in good-class Pharmacy in order to become thoroughly conversant with all branches of Retail; low salary until proficient. Green, 4 South Park Parade, Ilford, Essex.

AS Locum or permanent, Northern Counties, or good permanency Southern Counties; age 25; qualified; excellent experience; free now. "C. H. P.," "Hawcroft," South View, Jarrow-on-Tyne.

AS Manager or Locum; life experience in Agricultural business; Prescriber, Photography, Extractor; 53. Chemist, Mrs. Buck, Sunnyside, Wroxham.

AS Manager (41); ex-Service; British and U.S.A. qualifications; London preferred, but not essential. P.C.B. 7/37, Office of this Paper.

AS qualified Manager; permanency preferred; 20 years' London and provincial experience; disengaged. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

AS qualified Manager or Locum; disengaged; good all-round experience; town or country. J. Fraser, 139 High Road, East Finchley, N. 2.

ASSISTANT, French, 19, speaking English, six years' experience in French Dispensing Counter, desires permanency. Please apply Maurice Poinsignon, 22 Montpelier Place, London, N.W. 7.

ASSISTANT; 31; single; unqualified; 10 years' experience Dispensing and Counter; ex-Service; College trained; excellent references; kindly state salary, etc. Jones, 33 Cedardale Road, Fazakerley, Liverpool.

ASSISTANT or Manager; 33; unqualified; abstainer; reliable; Dispensing, Prescriber, Photography; Midlands or North preferred; disengaged August 22nd. Apply 129/11, Office of this Paper.

ASSISTANT; 33; single; unqualified; accustomed to West-End. "Opus," 28 Melrose Avenue, Cricklewood, N.W. 2.

ASSISTANT, unqualified, desires situation in good-class Pharmacy; thorough knowledge of Dispensing, Counter work, Photography, etc.; London required. Apply "Mercury," Rotherwas, Deddington, Oxon.

ASSISTANT, 23½, referred one subject in Minor, desires post or Locum work until end September; excellent London and provincial experience. Lightfoot, Howard Street, Penrith.

ASSISTANT or Branch Manager; unqualified; tall; Dispensing, Counter, Photo; thorough experience; disengaged; married. Hannath, 53 Cantelupe Road, East Grinstead.

ASSISTANT; unqualified; 28; smart appearance; 11 years' experience Dispensing, Counter, Wholesale, and Laboratory; knowledge of Photography; good references; state salary. "Statim," 5 St. Andrew's Terrace, "Roker," Sunderland.

ASSISTANT or Manager; unqualified; 50; smart appearance; varied experience; disengaged. L. H. P., 3 Wyndham Street, Marylebone Road, W.

ASSISTANT (22), unqualified, tall, requires situation; good experience in Dispensing, Counter work, Photography; Locum or permanency; disengaged August 21. H. S., 1 Kinross Avenue Lipson, Plymouth.

ASSISTANT (25); unqualified; six years' experience high-class Dispensing and Counter; Midlands preferred. "Statim," 5 Wellington Street, Redditch, Worcester.

ASSISTANT; 26; 11 years' good-class experience Dispensing and Counter; salary required, £3 15s.; please state full particulars, hours, etc. "Provincial" (130/14), Office of this Paper.

ASSISTANT; 30; unqualified; single; abstainer; tall; London and provincial experience; Dispensing, Counter, Window dressing; excellent references. Write C. F. C., 32 Gondar Gardens, Hampstead, N.W. 6.

ASSISTANT, unqualified, reliable Dispenser, good reference disengaged. Reply to "Open" (131/16), Office of this Paper.

ASSISTANT, unregistered, seeks situation; town or country 12 years' experience; highest references; disengaged. Black 72 Sandringham Road, Cricklewood.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G. (124/34), Office of this Paper.

DISPENSER, Bookkeeper, or Secretary to Medical man; Ha certificate; experienced; whole- or part-time. Dispenser 45 Plympton Road, Brondesbury.

DISPENSER-BOOKKEEPER (lady), Hall qualification, desire post, Locum or permanency; experienced; excellent testimonials. Apply 127/36, Office of this Paper.

EXPERIENCED, all-round Assistant; unqualified; tall; 37 Locum or permanency; disengaged. Apply 129/30, Office of this Paper.

HIGHLY experienced Assistant; expert Salesman; permanency preferred; best of references; disengaged. "N.," 11 Jam Street, Paddington, W.

IF in want of Branch Manager (married), seaside if possible, sound experience, reliability, successful results, wri "Capsol" (131/2), Office of this Paper.

LADY (24), tall, 4 years' Dispensing and Counter experienc seeks post; well recommended. Apply 130/34, Office of th Paper.

LADY Dispenser (Hall) desires Locum post until end of Augu Miss Rawcliffe, 187 Watling Road, Fulwood, Preston, Lan

LIVERPOOL.—Unqualified, 29, disengaged; Counter and D pensing; interview if desired; nine years' pre-war expe ence. Full particulars to 131/9, Office of this Paper.

LOCUM; unqualified; good all-round experience Pharmac Counter work, Photography, Prescribing, etc.; disengag immediately. "Quicksilver," Rotherwas, Deddington, Oxon.

LOCUM.—H. Armstrong Brown, 1 Wathen Road, Dorking, is liberty September 4th to 24th; qualified; experienced Pho graphy; highly recommended first-class references; total abstain

LOCUM; unqualified; 27; experienced Counter, Dispensin Photography; dates open September 20th to October 2n "H.," 42 Gascony Avenue, N.W. 6.

LOCUM; thoroughly experienced Dispenser and Counterma recommended leading Wholesale houses; vacant Saturd next; licensed Valuer and Stocktaker; stocks taken at lowest olusive price; Chemist's own lists priced. "L.," 27 Cambric Road, Westcliff-on-Sea.

LOCUM (qualified) wishes engagements from August to Octobe Northern Counties preferred; reasonable terms. Dobs Peters Mount, Bramley, Leeds.

LOCUM or otherwise; disengaged; terms moderate; steady a reliable. "D.," 82 Marlborough Road, Romford, Essex.

LOCUM or permanency; qualified; 43; disengaged; Retail a Dispensing experience. "Chemist," 183 Alfreton Ro Nottingham.

LOCUM, qualified (28), disengaged August 23rd; Dispensi and Photographic experience; excellent references. Ap "Chemist," 23 Market Street, Brighton.

LOCUM, first-class Pharmacist, 37, has vacant August 15 September 2; recommended. "Statim," 33 Colville Terra Notting Hill, W. 11.

LOCUM-TENENS, middle-aged, all-round experience, disengag September 1. "Locum-Tenens," 232 Corporation Road, N port, Mon.

LONDON.—Qualified (24); tall; West-End experience Count Dispensing, Photographic; energetic; excellent referenc state terms. Framingham, Seapoint, Hunstanton.

M.P.S., YOUNG, energetic worker, requires any position where there is full scope for his energies; excellent references and experience; good solid work offered fer progressive remuneration and recognition. Mackavoy, Batley Carr, Yorks.

M.P.S. (lady) desires post to learn Retail; end September; Bristol or district. Apply 128/23, Office of this Paper.

M.P.S. (26), disengaged August 28th; excellent experience; highest references; North-Eastern Counties preferred, although not essential. Usual particulars to 129/4, Office of this Paper.

M.P.S. (24) desires post in Retail business; temporary or permanent. Terms to A. C. Nixon, Ghyll Bank School, Whitehaven.

M.P.S. and R.D.S.; elderly; part-time Locum; country branch; abstainer; many years' experience. Full particulars 128/37, Office of this Paper. Will advertiser kindly send his name to this Office.

M.P.S., F.S.M.C., young, energetic, requires position in London; would build up Optical connection. "Kismet," 167 High Street, Southend.

M.P.S. (27), tall, as Manager or Senior; Locum or permanent; ex-officer; last berth 8 years; 13 years' excellent Dispensing, Prescribing, Counter, and Photographic experience; disengaged. Particulars and salary, please, to "Pharmacist," 136 Keighley Road, Skipton.

MANAGER; qualified; long and varied experience; married; resident post preferred; disengaged September; reasonable terms accepted; knowledge of French. Roper, 3 Woodville Avenue, Jersey.

MANAGER or Locum, disengaged; highest references. G. Spencer, Ph.C., 13 Anstey Road, S.E. 5.

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QUALIFIED; good experience; W. or S.W. London or district. "Chemist," 18 Southfields Road, Wandsworth, S.W. 18.

QUALIFIED, 23, desires post as Assistant; good Dispensing and Photographic experience; energetic. Apply 132/3, Office of this Paper.

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